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Juneau, Alaska, Wind Hazard Information System (WHIS): A Wintertime Assessment of Wind Sensors on Mt. Washington, New Hampshire

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16. Abstract

The Federal Aviation Administration (FAA) Weather Branch performed a 6-week wintertime assessment of wind sensors on Mt. Washington, NH, in 1999. The purpose of the effort was to perform a preliminary investigation of the severe weather performance capabilities of anemometers for use in the prototype Wind Hazard Information System (WHIS) at Juneau International Airport, AK. The test site was selected as it is subjected to extreme meteorological and climatic conditions equivalent to alpine and arctic zones characteristic to Juneau. The summit weather is severe and often experiences snow and icing conditions, and the buildup of rime ice on exposed surfaces is prevalent and often substantial. One ultrasonic and two mechanical wind sensors, all with internal heater capabilities, were studied. Other instruments included an ice detector, a relative humidity probe, and an Internet-capable video camera which was set up to continuously monitor temperature/weather and sensor conditions. Additional equipment consisted of a datalogger, a personal computer (PC), and various communications equipment located in a heated instrument shelter. About 37 days of data were remotely collected, downloaded, and analyzed. Figures are presented in this report to document and present the test bed setup, data collection, and analysis results.

This effort was considered primarily a demonstration and shakedown effort, as a number of limitations were necessary and understood before the test bed installation. The most severe limitation was problems encountered with the video camera. Despite the test bed difficulties, a sufficient amount of useful data was successfully analyzed to draw some conclusions on the adequacy of the test bed setup and the performance of the wind sensors. Results show several effects of snow and icing on wind sensor performance. One wind direction mechanical sensor failed early in the study due to heater-related problems. The ultrasonic sensor experienced a significant amount of data outages, and was unavailable 9 percent of the time. The failures are highly correlated to snow conditions. Other data suggests the buildup of ice on the mast of the mechanical sensors is significant and affects sensor performance. Several test setup and data collection recommendations are provided in support of a proposed larger scale effort.

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The planning and execution of the sensor tests discussed in this report required a monumental effort by those involved in order to overcome tight schedules, equipment problems, and severe weather challenges. The authors would like to acknowledge the excellent work and support of Mr. Leo Jacobs and Mark Vassalotti of Systems Resource Corporation; Mr. Daniel Coombs of Raytheon Services Corporation; and Mr. Mike McKinney of the FAA William J. Hughes Technical Center. Mr. Frank Law of Universal Automation Labs is also acknowledged for his excellent work in compiling and analyzing the data gathered at the test site and in the preparation of this report. In addition, the authors would like to express their appreciation for the support and hospitality of the volunteers and staff at the Mt. Washington Observatory, with particular thanks to Mr. Ken Rancourt and Mr. Duncan McKee. Finally, a special thanks is extended to Mr. Alan Yates of Raytheon Services Corporation, now at the National Center for Atmospheric Research (NCAR). The installation and operation of the test site would not have been possible without his expertise, energy, and attention to detail.

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EXECUTIVE SUMMARY

The Weather Branch (ACT-320) of the Federal Aviation Administration (FAA) William J. Hughes Technical Center performed a 6-week wintertime assessment of several wind sensors on Mt. Washington, NH, in February and March of 1999. The purpose of the effort was to perform a preliminary investigation of the severe weather performance capabilities of the anemometers currently used in the prototype Wind Hazard Information System (WHIS) at Juneau International Airport, AK. A sonic wind sensor considered as a possible candidate for use in the WHIS was also tested. The test bed is located near the Mt. Washington Observatory (MWO) at the summit. The site was selected as it is subjected to extreme meteorological and climatic conditions equivalent to alpine and arctic zones characteristic to Juneau. The summit weather is severe and often experiences snow and icing conditions, and the buildup of rime ice on exposed surfaces is prevalent and often substantial.

The test bed consisted of one ultrasonic and two mechanical wind sensors. All sensors had internal heater capabilities. Other weather instrumentation included an ice detection sensor and a temperature/relative humidity probe. An Internet-capable video camera was set up to continuously monitor weather and sensor conditions. Additional instrumentation and equipment consisted of a datalogger, a personal computer (PC), and various communications equipment located in a heated instrument shelter. The test bed was completely unattended during the 6-week period. The PC served as an Internet web site and data server to provide on-line monitoring of sensor performance and live video images of the test bed. About 37 days of test bed data were remotely collected, downloaded, and analyzed. Hourly surface weather observations from MWO were separately collected. A custom set of data reduction and analysis tools were developed. The tools included a Fortran program developed to perform the bulk of the data reduction and analysis. The output of the program consists of continuous time series of sensor data and computed variables generated at ~10-s intervals. Hourly summaries of the data including mean and standard deviation values were also produced. The above data were also merged and compared with the surface weather observations. Figures are presented in this report to document and present the test bed setup, data, and analysis results.

This effort was considered primarily a demonstration and shakedown effort, as a number of assumptions and limitations were necessary and understood before the test bed installation. The most severe limitation on data collection and analysis resulted from problems encountered with obtaining and installing the video camera, and with the camera operation itself. Despite this and other difficulties encountered, a sufficient amount of useful data was successfully collected and analyzed to draw some conclusions on the adequacy of the test bed setup and the performance of the wind sensors. Results show several effects of snow and icing on wind sensor performance. One of the wind direction mechanical sensors failed early in the study due to heater-related bearing problems. The ultrasonic anemometer experienced a significant amount of data outages, and was unavailable 9 percent of the time. The failures are highly correlated to snow conditions. Other data suggests that the buildup of ice on the mast of the mechanical sensors is significant and affects the sensor performance. Several test bed setup and data collection recommendations are provided in support of a proposed larger scale effort.

1. INTRODUCTION.

The Weather Branch (ACT-320) of the Federal Aviation Administration (FAA) William J. Hughes Technical Center performed an informal field test and assessment of several anemometers located on Mt. Washington, New Hampshire, in February and March of 1999. The purpose of the effort was to perform a preliminary investigation of the severe weather performance capabilities of the anemometers currently used in the prototype Wind Hazard Information System (WHIS) at Juneau International Airport, AK, and the severe weather performance of other candidate wind sensors.

As background, this effort is part of a much broader feasibility study for the development and implementation of a prototype Wind Hazard Detection and Warning System for Juneau Airport in Juneau, Alaska. As envisioned, the end-state system would provide turbulence detection and warnings customized to the airport's challenging terrain. Mountains and rugged terrain around Juneau Airport restrict flight paths and can create complex and turbulent wind-flow patterns. To reduce the risk of aircraft encountering severe turbulence, the FAA currently requires that two major departure routes at Juneau be closed to Part 121 commercial aircraft whenever the centerfield and/or three anemometers on nearby mountains exceed FAA Operations Specifications for Part 121 air carrier operations in Juneau [1]. The WHIS, and the detection and warning system if implemented, will incorporate current guidelines in their respective Operations Specifications to maximize use of Juneau's turning-departure routes and support overall airport operational decisions.

Development of the WHIS is being conducted by the National Center for Atmospheric Research (NCAR), through the Turbulence Product Development Team (PDT) of the FAA Aviation Weather Research (AWR) program. Data gathering and analysis at Juneau is being performed by NCAR using a deployed array of sensors which include the centerfield and mountaintop anemometers currently employed in Part 121 Operations. The AWR Program is managed under AUA-430, which provides funding for and directs research related to weather phenomena affecting all phases of aviation. The purpose of the AWR program is to identify and develop weather-related science and technology which will improve safety as well as increase capacity. Funded activities range from basic research in various phenomena to prototype systems and products designed for both FAA and aviation industry users. The Weather Branch (ACT-320) is located at the Technical Center in Atlantic City, New Jersey, and provides continuous support to AUA-430 in this effort. The primary roles of ACT-320 include user needs assessments, conduct/oversight of demonstrations and evaluations, and meteorological assessments. Additional support in this effort includes requirements determination as well as engineering, and test and evaluation.

1.1 PURPOSE OF REPORT.

This report provides results of the test bed demonstration and preliminary assessment of sensor performance in support of selecting and maintaining wind sensors for the Juneau Airport prototype WHIS. The report documents the test bed setup, data collection, and analysis activities related to the demonstration and assessment.

1.2 SCOPE OF REPORT.

This report has been written and formatted in accordance with the FAA Test and Evaluation Process Guidelines [2]. The test guidelines have been tailored to account for this demonstration and assessment type activity. The body of this report contains a description of the test bed setup, sensors, test method, and data collection and analysis activities. Data analysis results and summaries are provided in the figures and appendix A at the end of this report. Discussion, conclusions, and recommendations based on results of the test bed and sensor performance are also provided. Detailed test bed data and plots are contained in appendices B and C and are provided as separate file attachments for electronic copies.

2. REFERENCE DOCUMENTS.

This section contains a list of all reference documents used in the development of this test report.

1. FAA Operations Specifications for Alaska Airlines Operations in Juneau, AK, C64, Effective 21 April 1998.

2. FAA Acquisition Management System (AMS) Test and Evaluation Process Guidelines, Content and Format of Operational Test (OT) Reports, appendix C-3, February 1999.

3. Mt. Washington Observatory, Home Page, *http://www.mountwashington.org*.

4. Mt. Washington and the Presidential Range Topographic Map, Scale 1:20,000, Appalachian Mountain Club, Boston, MA, ISBN 0-910146-97-7, Revised June 1989.

5. Handar Model 425 Series of Ultrasonic Wind Sensors, User's Guide, version 1.6, Sunnyvale, CA, July 1998.

6. Rosemount Model 871FA Ice Detector, Product Data Sheet 2239, Rosemount Inc., Minneapolis, MN, November 1977.

7. US Weather Net, Home Page, *http://www.uswx.com/wx/us/nh/KMWN*.

3. SYSTEM DESCRIPTION.

3.1 TEST SITE AND TEST BED LOCATION.

The test site is situated near the Mt. Washington Observatory [3], which is located on the summit of Mt. Washington in New Hampshire. The geographical summit has an elevation of 1917 meter (m) (6,288 feet) and is the highest point in the northeastern United States. The Observatory is a research facility which specializes in the conduct of scientific research and engineering test programs for the design, development, and testing of robust meteorological instrumentation. The most important feature of the facility is its unique location, which is subject to extremes of meteorological and climatic conditions equivalent to alpine and arctic zones such as Juneau, Alaska. The location and conditions provide the ideal natural test bed for assessing the severe weather performance of meteorological instrumentation. Snow and icing conditions are common on Mt. Washington from early fall through spring. The buildup of rime

ice on exposed surfaces is prevalent and often substantial. Based on the 43-year interval from 1935–78, the mean annual snowfall was 6.3 m (248 inches (in)). For some part of the day, the summit is in clouds or fog, at least 300 days out of the year. The lowest recorded temperature was -44°C (-47°F) and the mean hourly wind speed is 35.1 miles per hour (mph). Wind gusts exceeding 45 $m \cdot s^{-1}$ (100 mph) are frequent in winter and early spring. The highest wind velocity ever recorded anywhere in the world was 103 meters per second ($m \cdot s^{-1}$) (231 mph) which was measured at the Observatory.

The sensor test bed location is approximately 340 m (1125 feet) and 9° north of the summit. It is on the north slope, and about 67 m (220 feet) below the summit. As a result, it has excellent exposure for winds from all directions, especially for the large northwest sector extending southwest through northeast. A topographic map [4] showing the location of the test bed with respect to the summit and Mt. Washington Observatory is shown in figure 1.

3.2 SENSORS.

The array of four mechanical wind sensors and an ultrasonic anemometer were mounted at a height of 2.6 m (8.6 feet) above ground on a ~13.7 m (45-foot (ft)) horizontal steel I-beam oriented in a generally northeast/southwest direction. Supplementary weather instrumentation and equipment included a temperature and relative humidity probe, an ice detection sensor, a video camera, a datalogger, a personal computer (PC), and various communications equipment. Electrical power and data communications were supplied from a heated instrument shelter located ~30 m (100 feet) southeast from the sensors. Schematic diagrams showing elevation and plan views of the test bed setup and instrumentation are shown in figures 2 and 3, respectively. Photographs of the test bed and sensors are shown from varying views in figures 4 and 5. The photographs in figure 6 show views of the test bed with respect to the Observatory.

Two pairs of Hydro-Tech mechanical wind sensors manufactured by Taylor Scientific Engineering were installed. Each pair consisted of an individual Model WS-3 Heated Rotor Anemometer and a separate Model WD-3 Heated Direction Vane. The sensors are particularly designed for rugged applications and are electrically heated and temperature controlled. Each has a 2000-watt (W) heater, which is approximately 33 percent more than the standard production models currently in use in Juneau, AK. Photographs of the rotor anemometer and the direction vane are shown in figure 7.

A modified Handar Model 425AH ultrasonic anemometer was also installed for testing. Production units of the 425AH have thermostatically controlled transducer heads with a total heat output of about 30 W. The modified unit, as shown in figure 8, has additional heating elements covering the sensor body and transducer arms, and consumes approximately 240 W. The sensor was mounted without the bird spikes installed. It has an integrated microprocessor that acquires and processes wind data, and performs serial data communications. The array of three equally spaced ultrasonic transducers in a horizontal plane measures the transit time for sound to travel from one transducer to another. The transit time depends on the wind velocity along the sonic path. Unreliable readings, which may occur when large raindrops or ice pellets hit a transducer, are eliminated by an internal signal processing technique [5]. The version of firmware used in the unit tested was version 2.03.

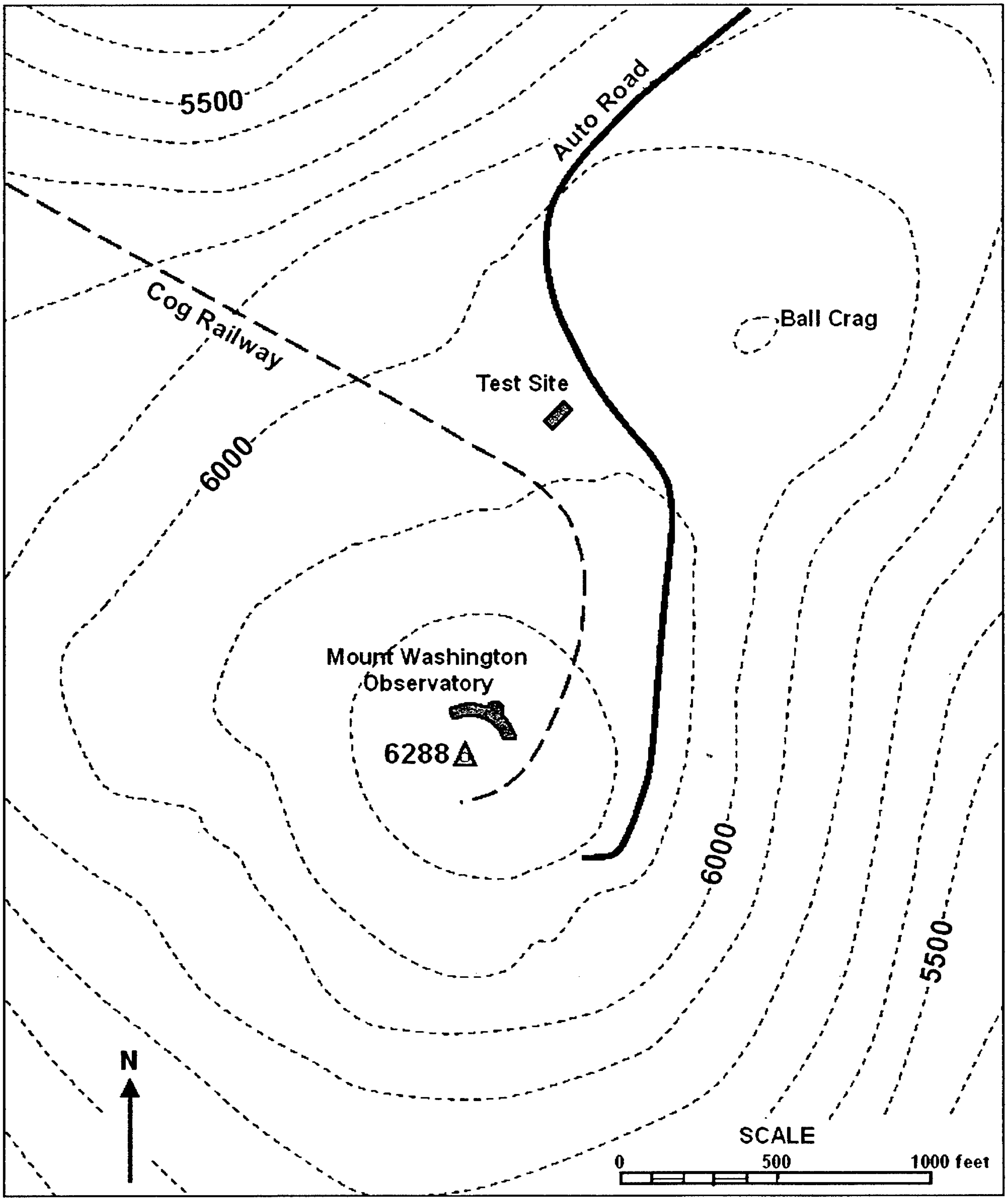


FIGURE 1. SITE MAP WITH TEST SITE

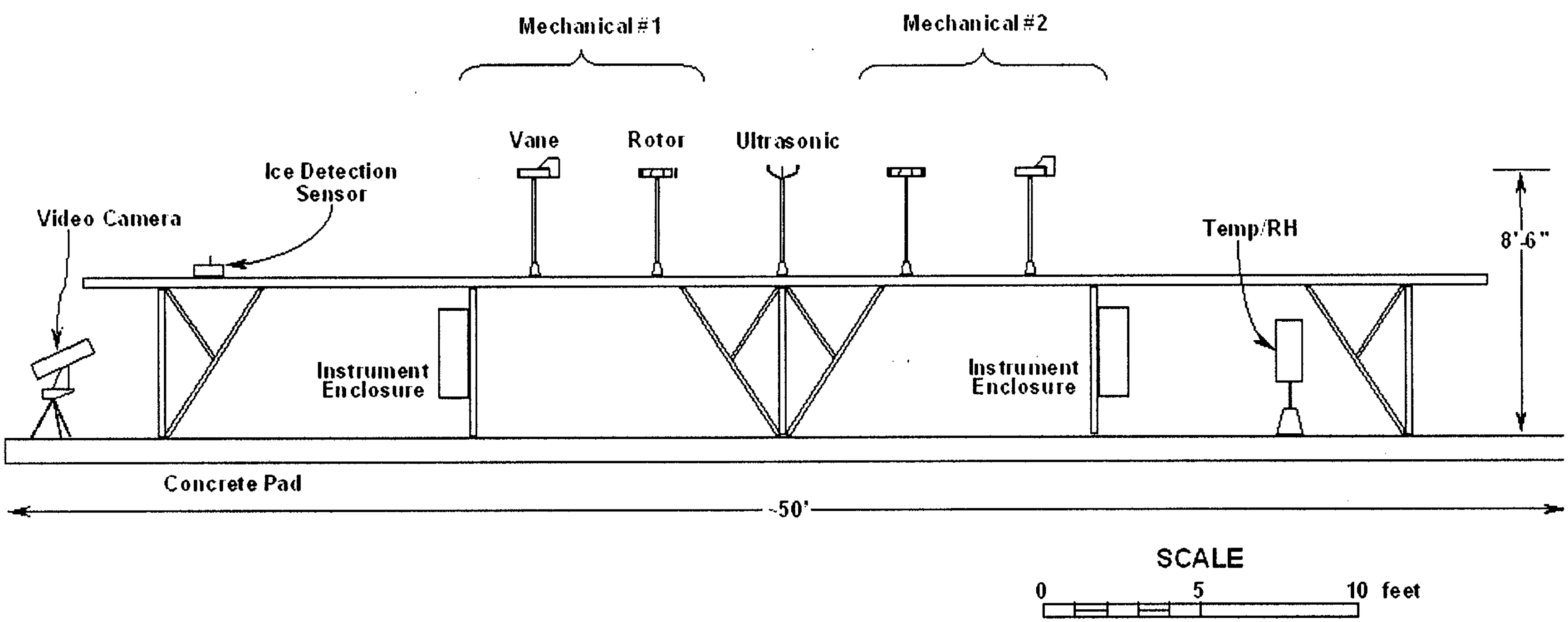


FIGURE 2. SCHEMATIC ELEVATION VIEW OF TEST BED AND SENSORS

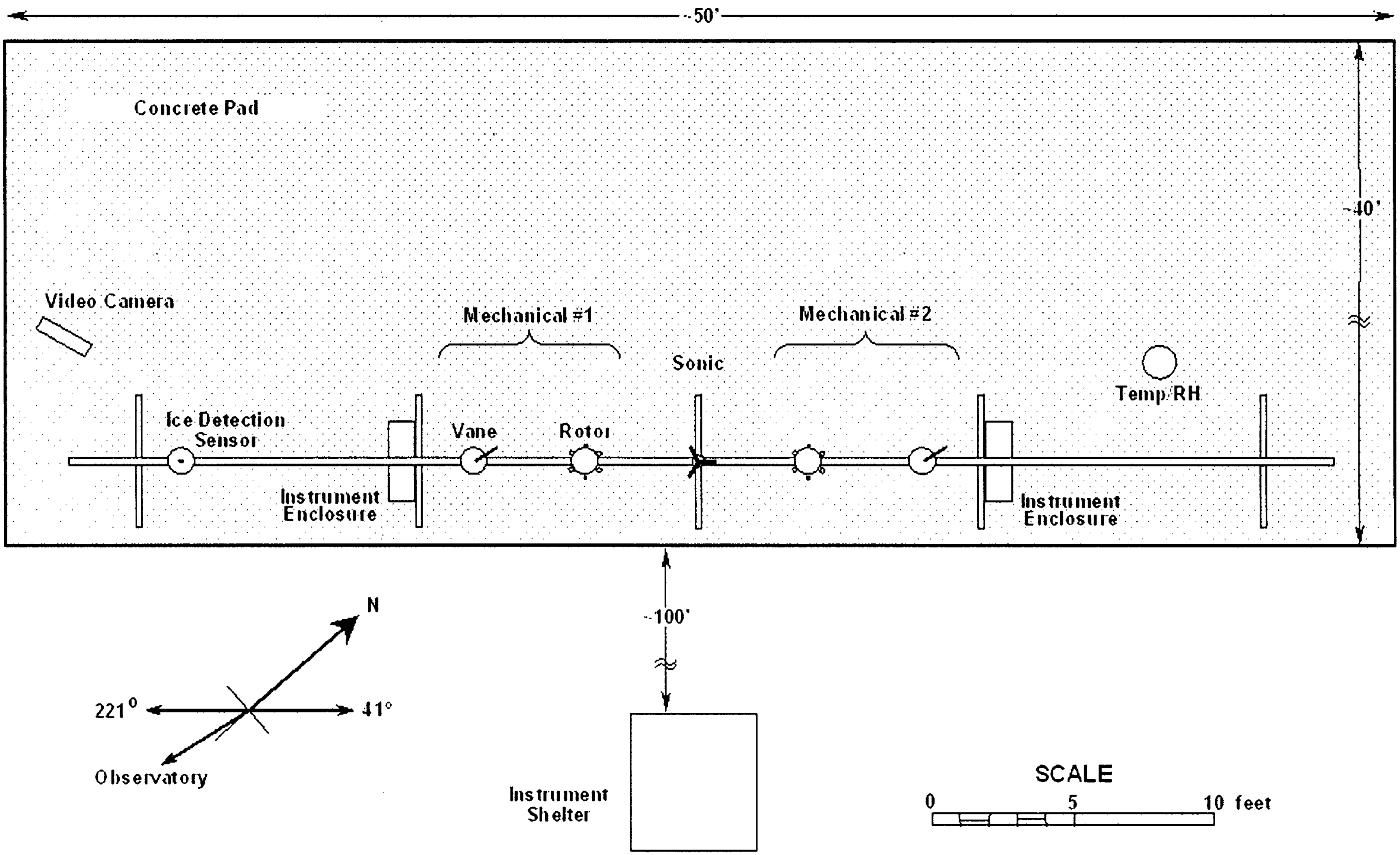
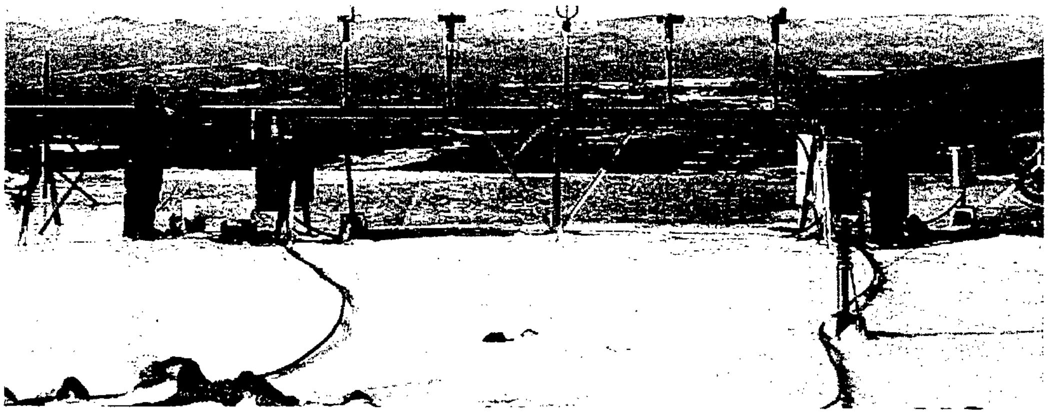
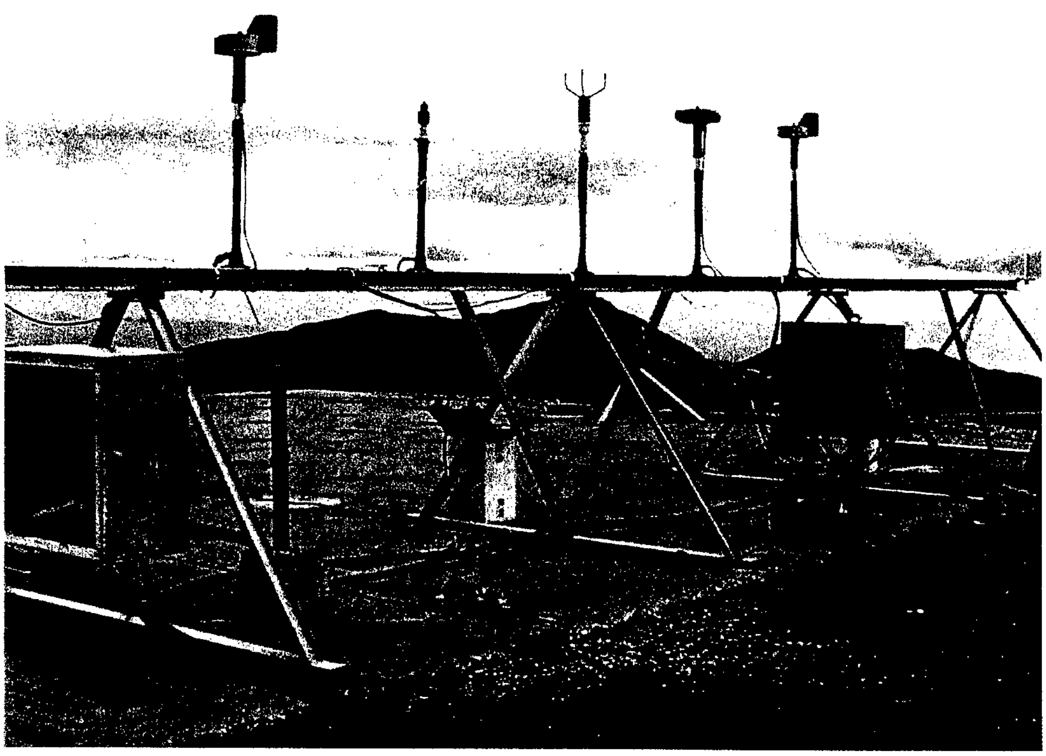


FIGURE 3. SCHEMATIC PLAN VIEW OF TEST BED AND SENSORS

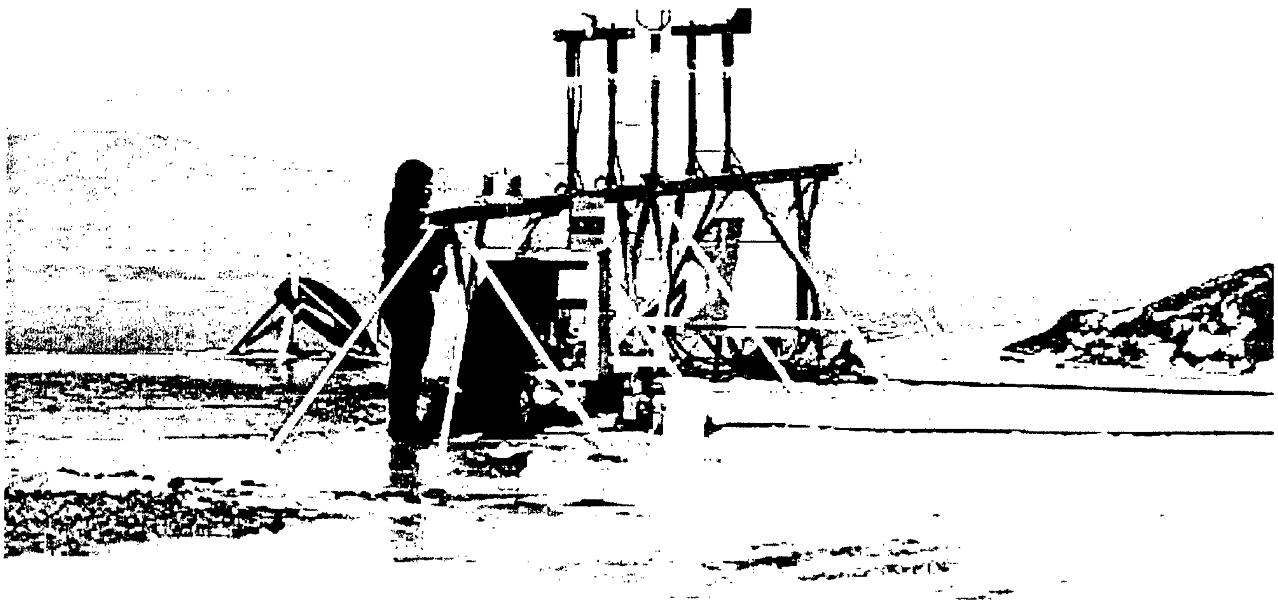


(a)

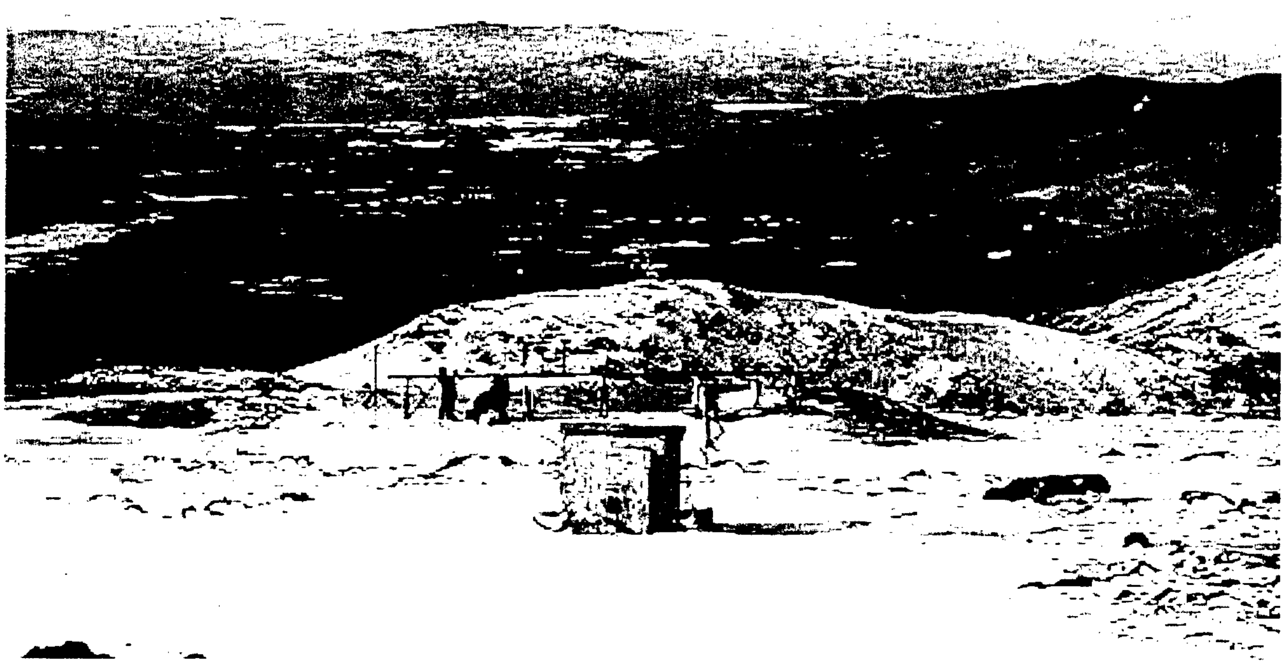


(b)

FIGURE 4. VIEWS OF SENSORS LOOKING NORTHWEST (a), AND NORTH (b)

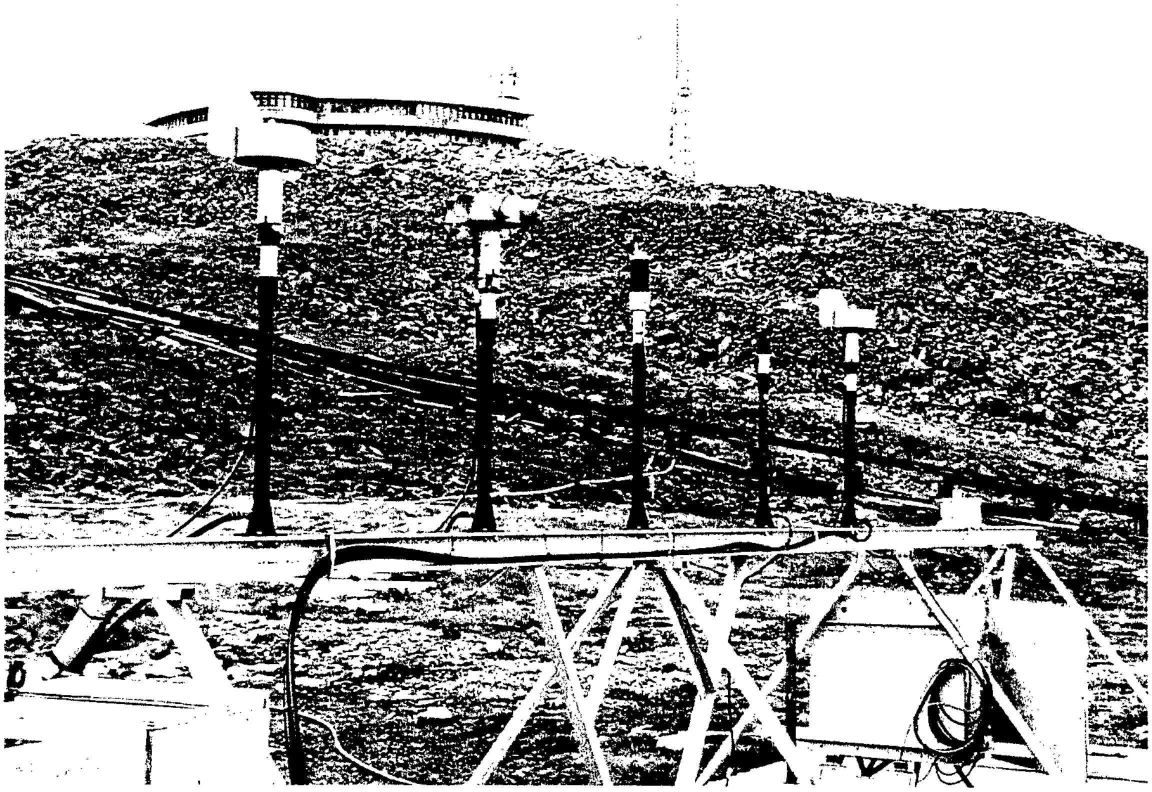


(a)

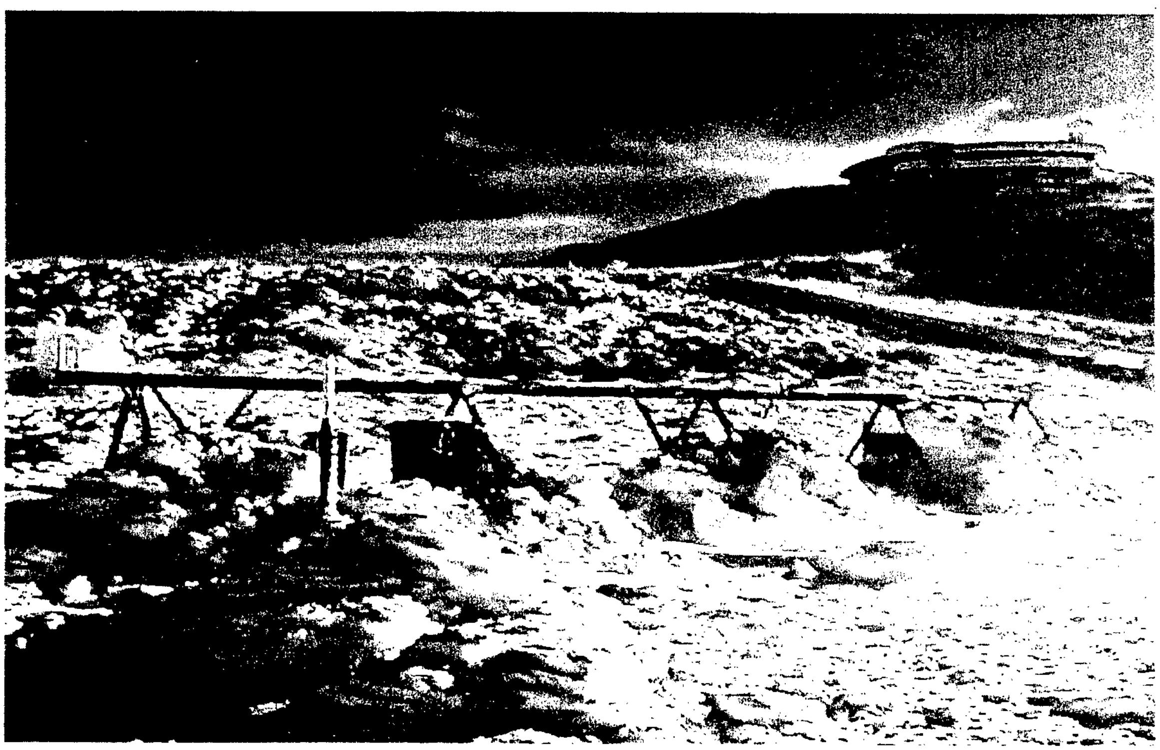


(b)

FIGURE 5. VIEW OF SENSORS LOOKING NORTH (a), AND TEST BED AND SHELTER LOOKING NORTHWEST (b)

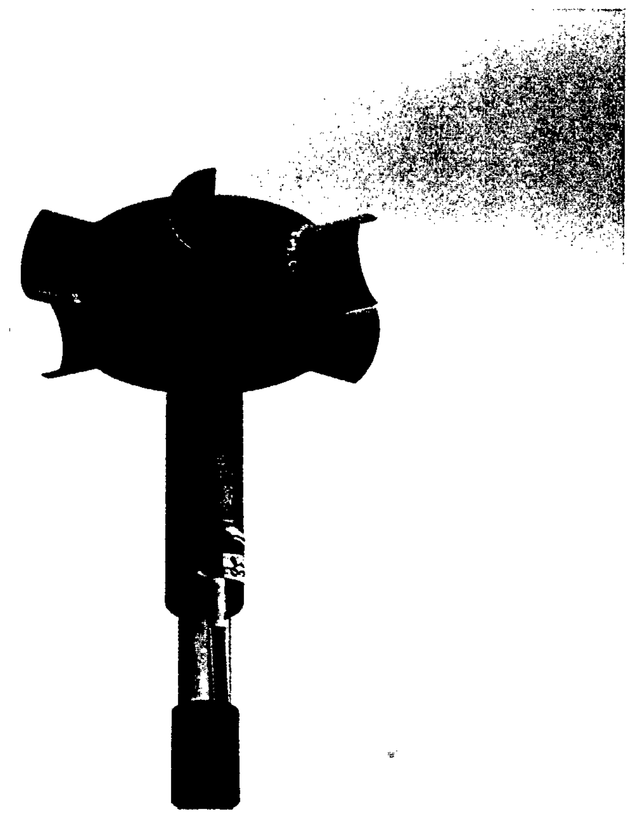


(a)



(b)

FIGURE 6. VIEWS OF THE TEST BED AND OBSERVATORY (a), AND TEST BED IN SNOW CONDITIONS (b)



(a)

(b)

FIGURE 7. MECHANICAL WIND SENSOR ROTOR (a), AND DIRECTION VANE (b)

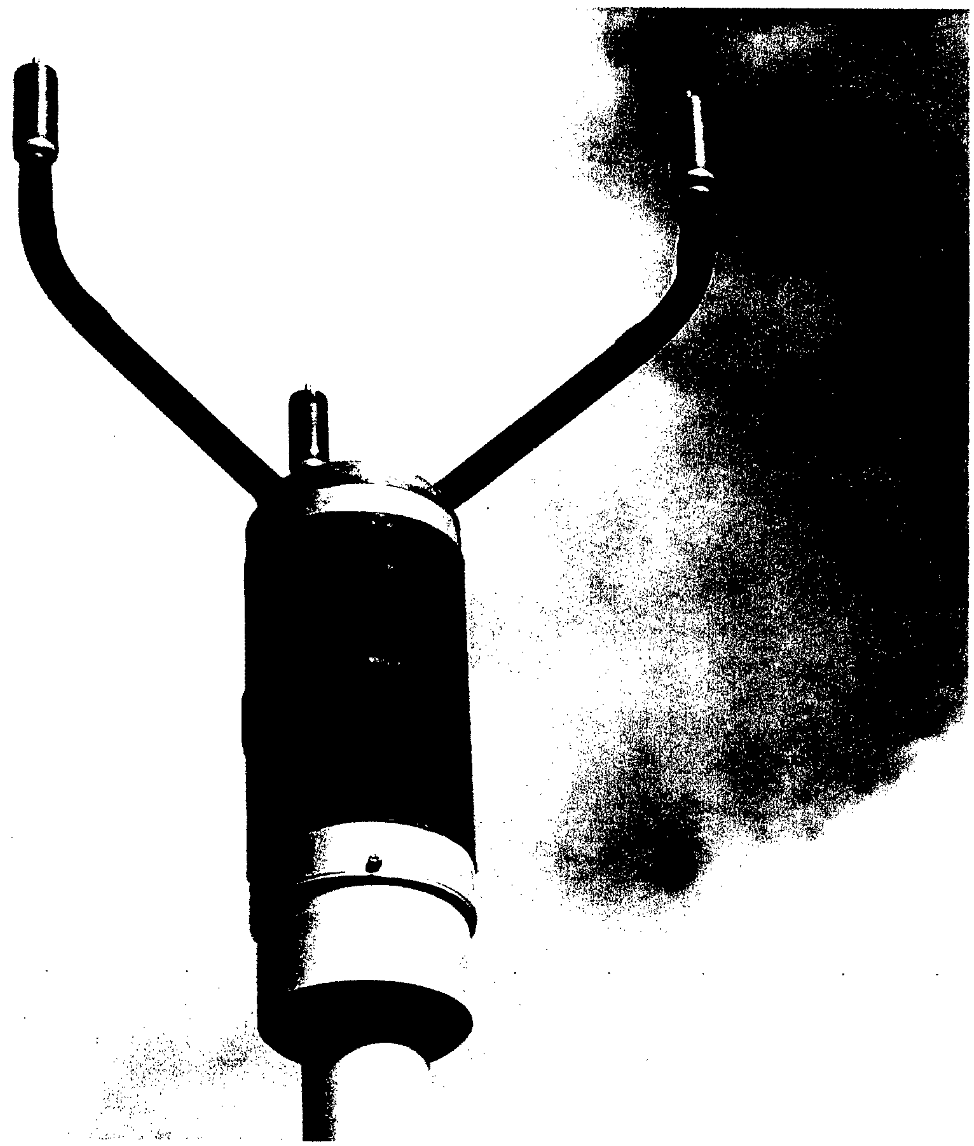


FIGURE 8. ULTRASONIC ANEMOMETER

3.3 OTHER INSTRUMENTS.

To provide an automated means of detecting icing conditions, a Rosemount Model 871FA Ice Detector [6] was installed at the test site. Because the sensor is designed for installation through the skin of an aircraft, a special metal housing was fabricated to mount and protect the sensor body. A photograph of the sensor and the housing is shown in figure 9. The sensor measures the amount of ice mass accumulation on a cylindrical metal probe. The probe is vibrated at a natural resonance frequency of 40 kilohertz (kHz). As ice accretes, the frequency of the vibration decreases. Once a preset amount of ice mass has accumulated, the cylinder heater is activated to melt and remove the ice. A nominal time history of the probe output voltage based on its operating principles is shown in figure 10. The figure shows the voltage increasing with ice accumulation, and then dropping to its threshold value as the heater is activated to remove the ice. The standard trip point is 0.5 millimeter (mm) (0.020 in) ice thickness with an accuracy of about ±25 percent.

Air temperature and relative humidity were measured by a Campbell Scientific HMP45C integrated temperature and relative humidity probe manufactured by Vaisala, Inc. The probe consists of a platinum resistance thermometer and capacitive-type relative humidity sensor housed directly in a 12-plate Gill solar radiation shield. The temperature measurement range and accuracy is –39 to +60°C, and <±0.5°C, respectively. Relative humidity field accuracy at 20°C is ≤±3 percent over the full RH range of 0–100 percent. To prevent the buildup of snow and ice directly on the sensor, the unit was mounted in a specially fabricated aluminum canister with top and bottom ventilation. The open bottom of the canister was situated about 0.5 m (1.5 feet) above ground. A photograph of the enclosure is shown in figure 11.

A Pelco PT780 series panning and tilting video camera with preset positioning capabilities was set up to provide real-time visual monitoring and recording of the rime icing on the sensors. The camera enclosure has a heater and pressurized dry nitrogen system to prevent icing and condensation buildup on the camera lens. The camera was connected via unshielded coaxial cable to the LRD41C video receiver and drive controller unit located in the instrument shelter. A photograph of the video camera is shown in figure 12. Unfortunately, difficulties were encountered with acquiring and installing the camera which severely limited its usefulness for the data collection effort. The camera was received from the manufacturer in damaged condition and was not available for testing and burn-in prior to the installation on Mt. Washington. In addition, the test bed camera mount, which was to be manufactured by Mt. Washington personnel, was not complete at the time of installation of the other equipment. Difficulties in coordinating a subsequent installation of the camera by Observatory personnel further delayed use of the camera. When the camera was finally installed by Observatory personnel, the lenses became fogged, rendering the video useless. The fogging should not have occurred since the camera was supposedly pressurized with dry nitrogen. As a result of the numerous problems encountered, video images of the test bed and sensors were not available. This proved to be the most serious setback in data collection, because it prevented correlation of sensor performance with a real-time assessment of weather conditions.

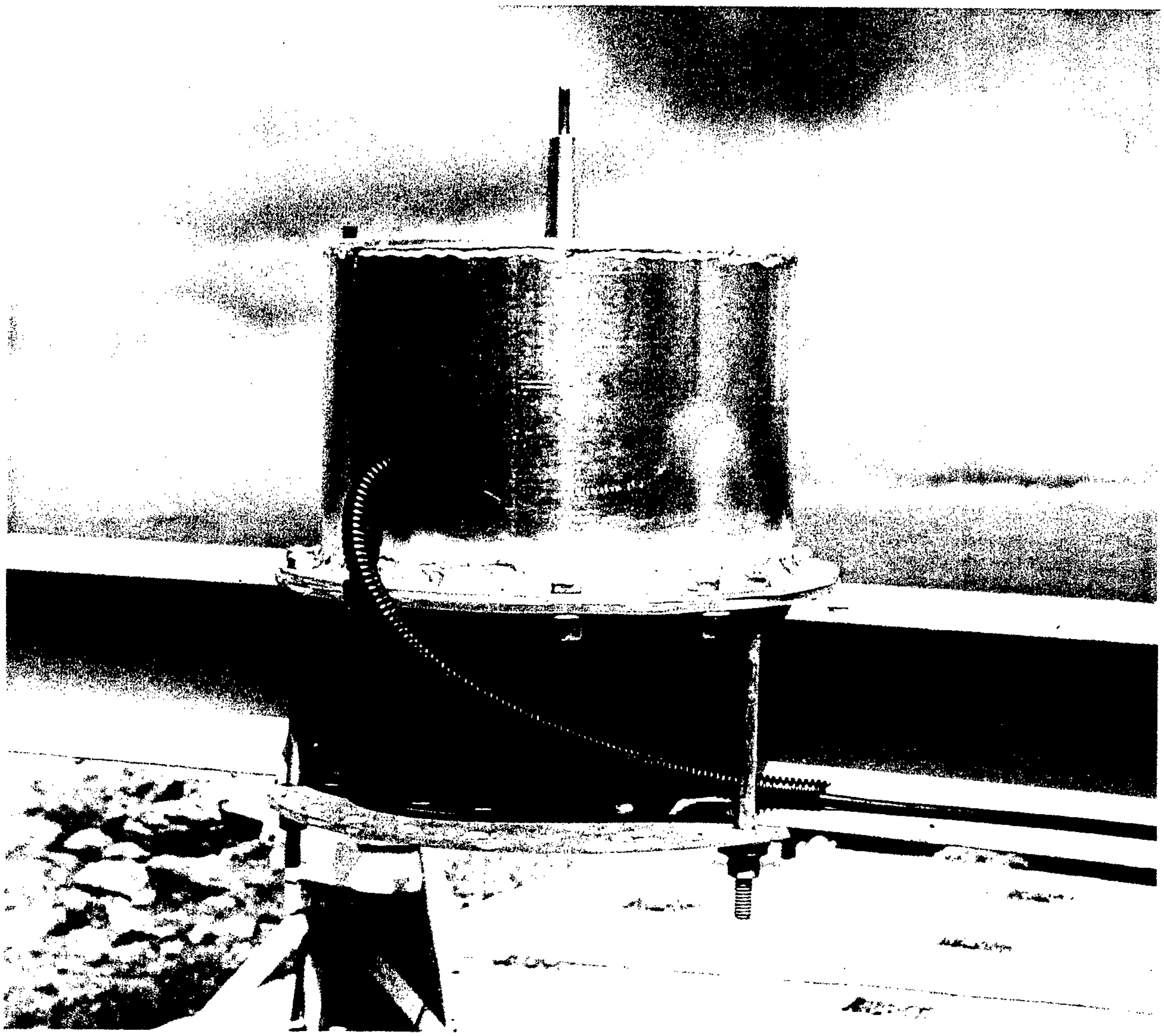


FIGURE 9. ICE DETECTION SENSOR

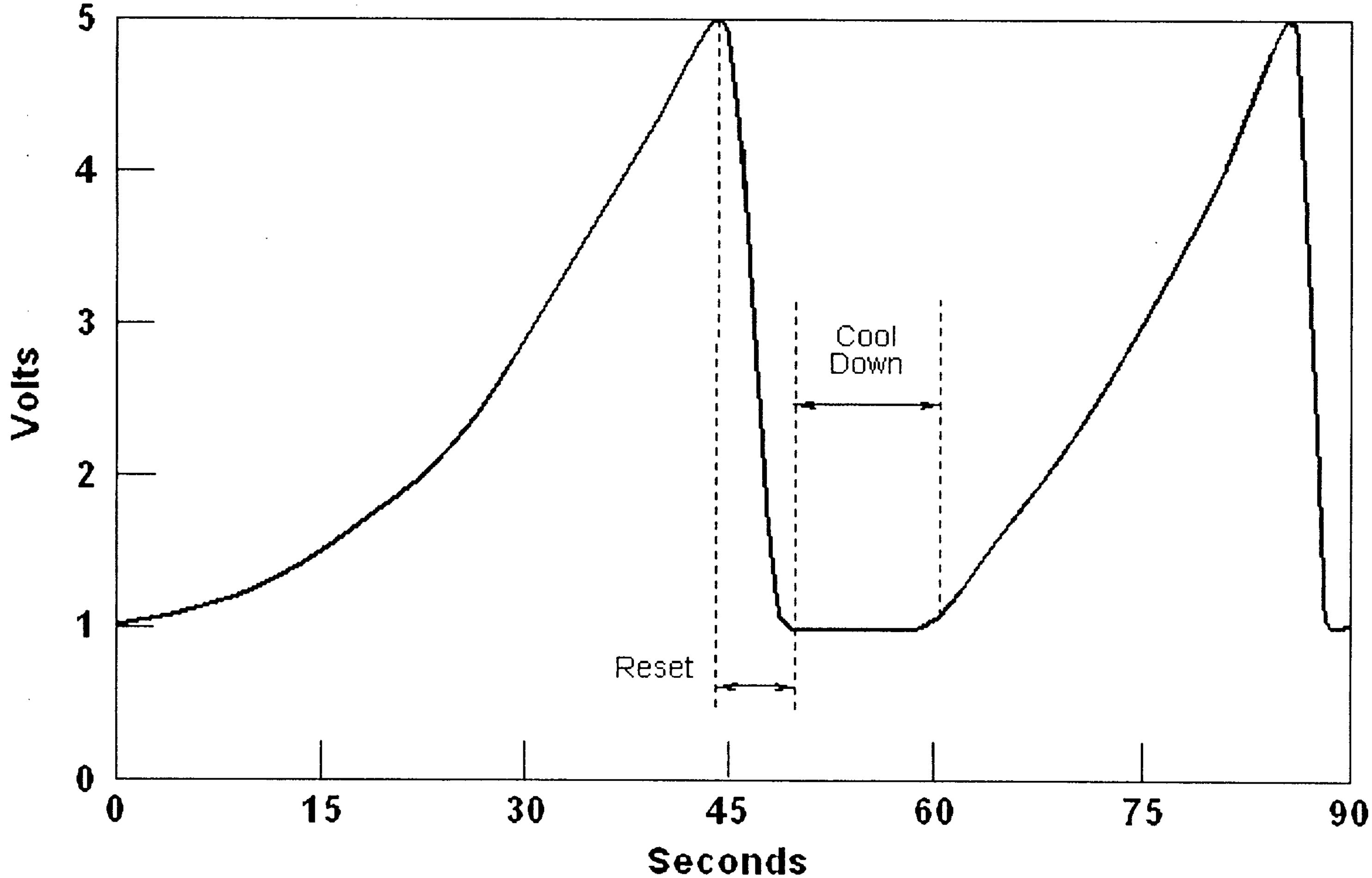


FIGURE 10. NOMINAL ICE DETECTION SENSOR RESPONSE

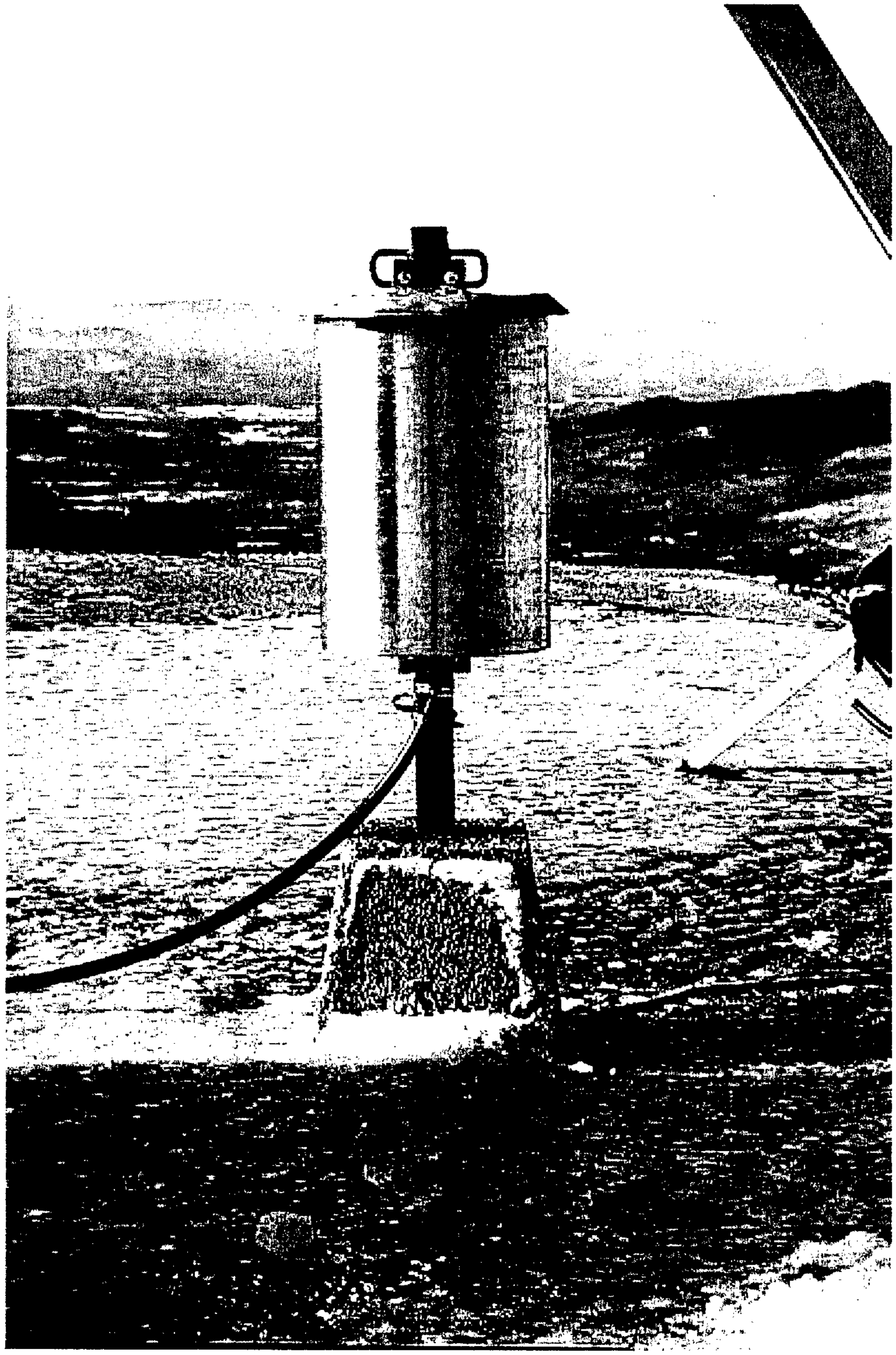


FIGURE 11. TEMPERATURE AND RELATIVE HUMIDITY ENCLOSURE

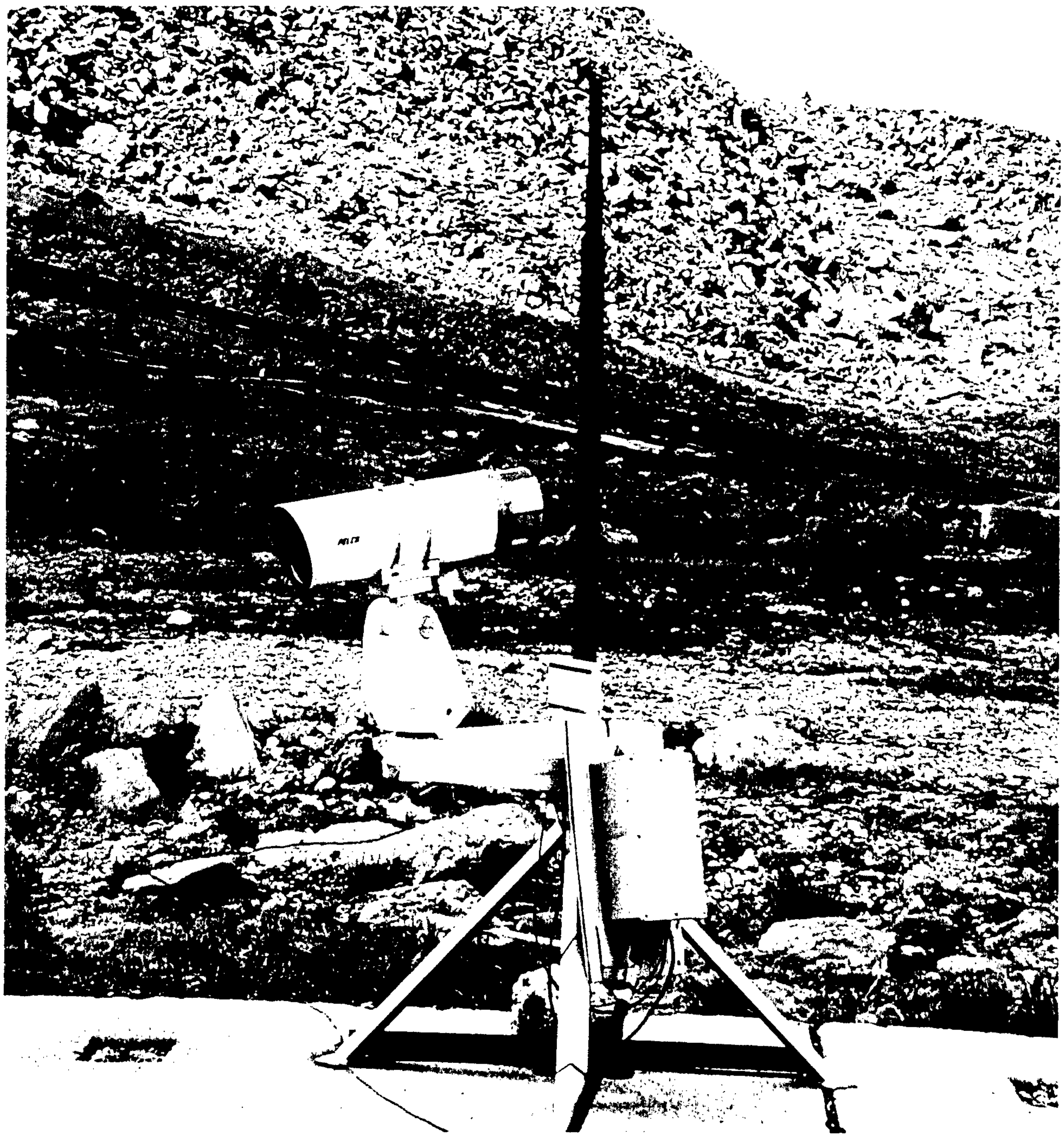


FIGURE 12. VIDEO CAMERA

3.4 DATA ACQUISITION.

The test bed was designed and set up for complete unattended operation and maintenance during the test period. Data acquisition from the weather sensors was accomplished either directly, or via a Campbell Scientific Model CR23X Micrologger which was located in the environmental enclosure on the instrument-mounting fixture. Photographs of the two environmental enclosures are provided in figure 13. The datalogger supplied data to a Windows NT-based PC located in the heated shelter. The nominal sampling and recording rates for the ultrasonic sensor and the balance of other sensors were 1 and 10 seconds (s), respectively.

A block diagram showing data collection is furnished in figure 14. The PC performed the data recording, and was connected to the Observatory via a 10 BaseT connection using Internet Protocol. The test bed PC was assigned an Internet Protocol (IP) address, and set up as an Internet web and File Transfer Protocol (FTP) server to facilitate remote monitoring, control, and collection of test bed data. The test bed web server also supplied live video camera images and on-line analysis tools in order to provide continuous monitoring and evaluation of sensor data. Pictures of the web site with on-line analysis and camera frame features are shown in figures 15 and 16.

4. TEST AND EVALUATION DESCRIPTION.

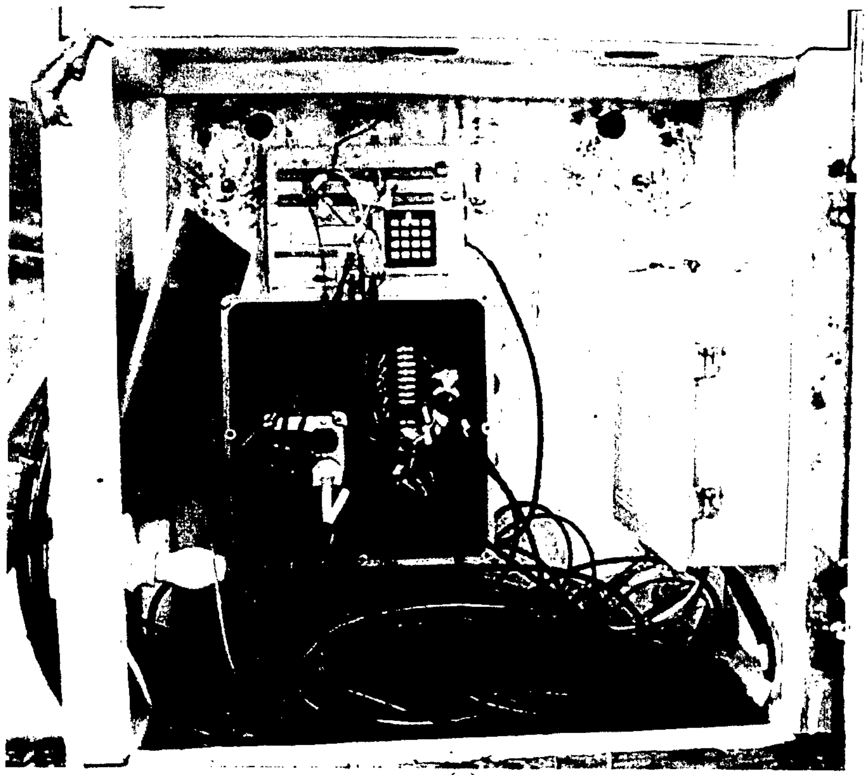
4.1 TEST OBJECTIVES/CRITERIA.

The objective of the study was to evaluate the effects of icing and snow on the performance of the wind sensors. A secondary objective was to design and develop an unattended sensor test bed for use in future tests on Mt. Washington.

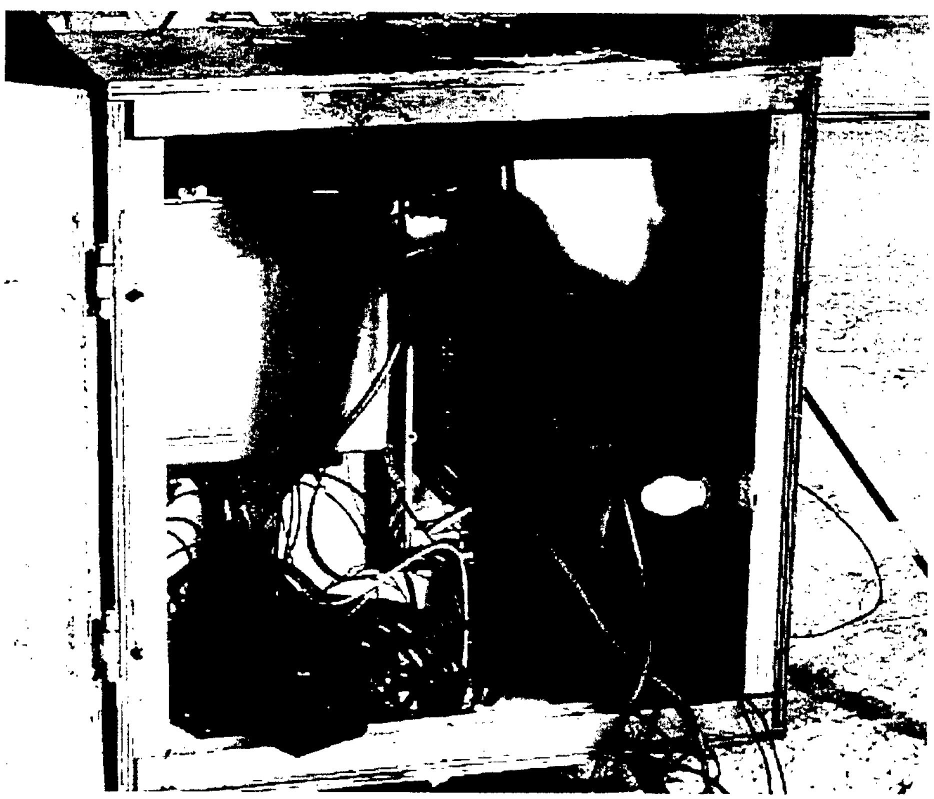
4.2 TESTING DESCRIPTION.

Original plans called for testing over a 3-month period, but difficulties with the data collection suite limited the period of useful data collection. Consequently, the evaluation consisted of a single 6-week activity for assessing wind sensor performance. No particular subtests were performed or critical test issues considered. Test bed setup and installation of the sensors and instrumentation took place on Mt. Washington the week of February 8, 1999, under unfavorable weather conditions. Initial data collection began on February 12, 1999, with full data collection taking place from February 19, 1999, to the end of the effort on March 21, 1999. The test bed was dismantled on June 17, 1999.

Sensors utilized in the test were installed as received from the manufacturers and other organizations. Special mounting enclosures were designed and fabricated for the ice detection sensor and the temperature and relative humidity probe. No specific calibration procedures were performed, and the azimuth alignment of the wind sensors was estimated by means of a compass and visual inspection. As previously mentioned, the deployment of the camera was plagued with numerous difficulties, and very little useful video data was acquired. The test bed data was monitored remotely and by ACT-320 at the Technical Center. Data transfer was accomplished



(a)



(b)

FIGURE 13. DATALOGGER INSTRUMENT ENCLOSURE (a), AND OTHER INSTRUMENT ENCLOSURE (b)

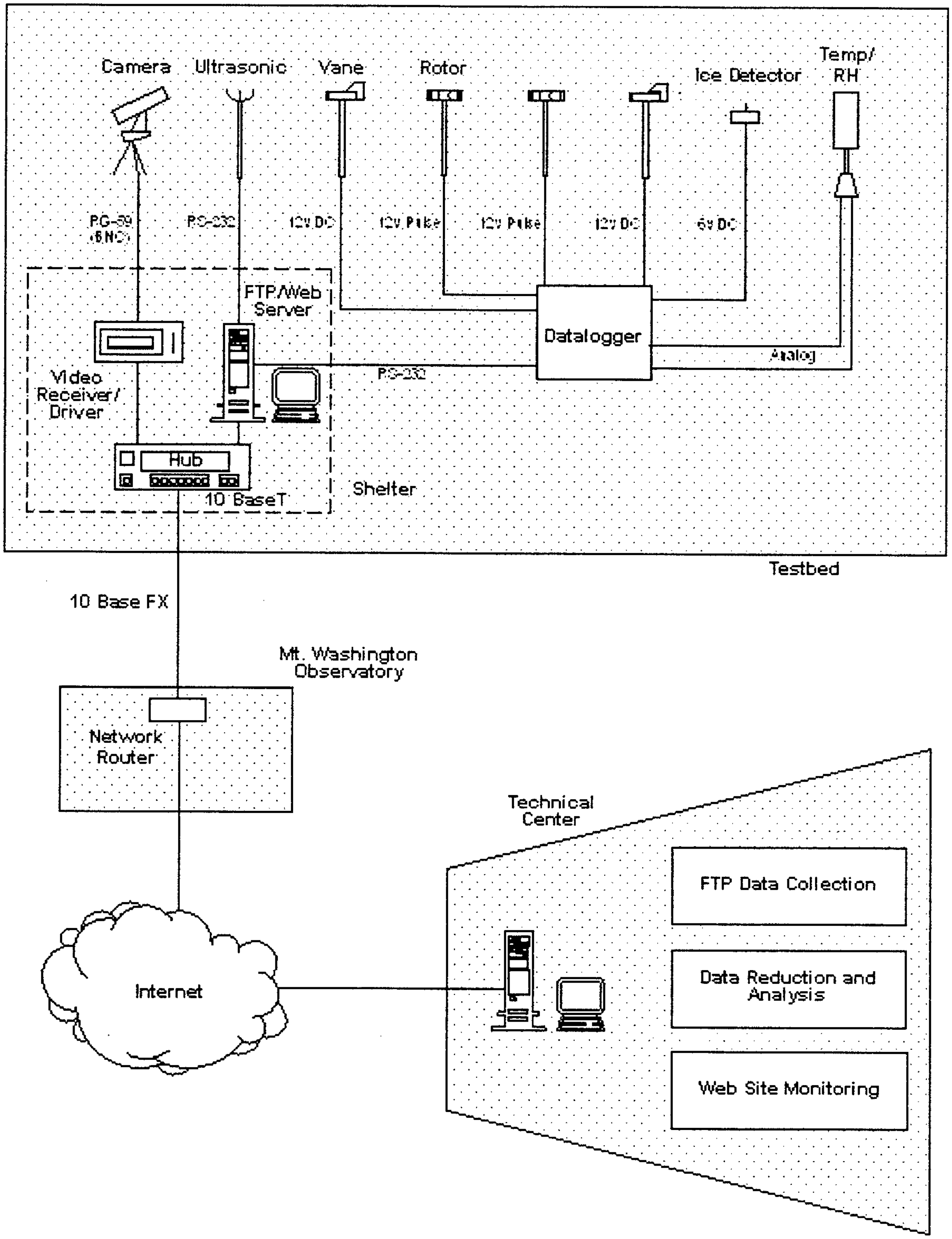


FIGURE 14. DATA COLLECTION AND PROCESSING BLOCK DIAGRAM

FIGURE 15. TEST SITE MAIN WEB PAGE

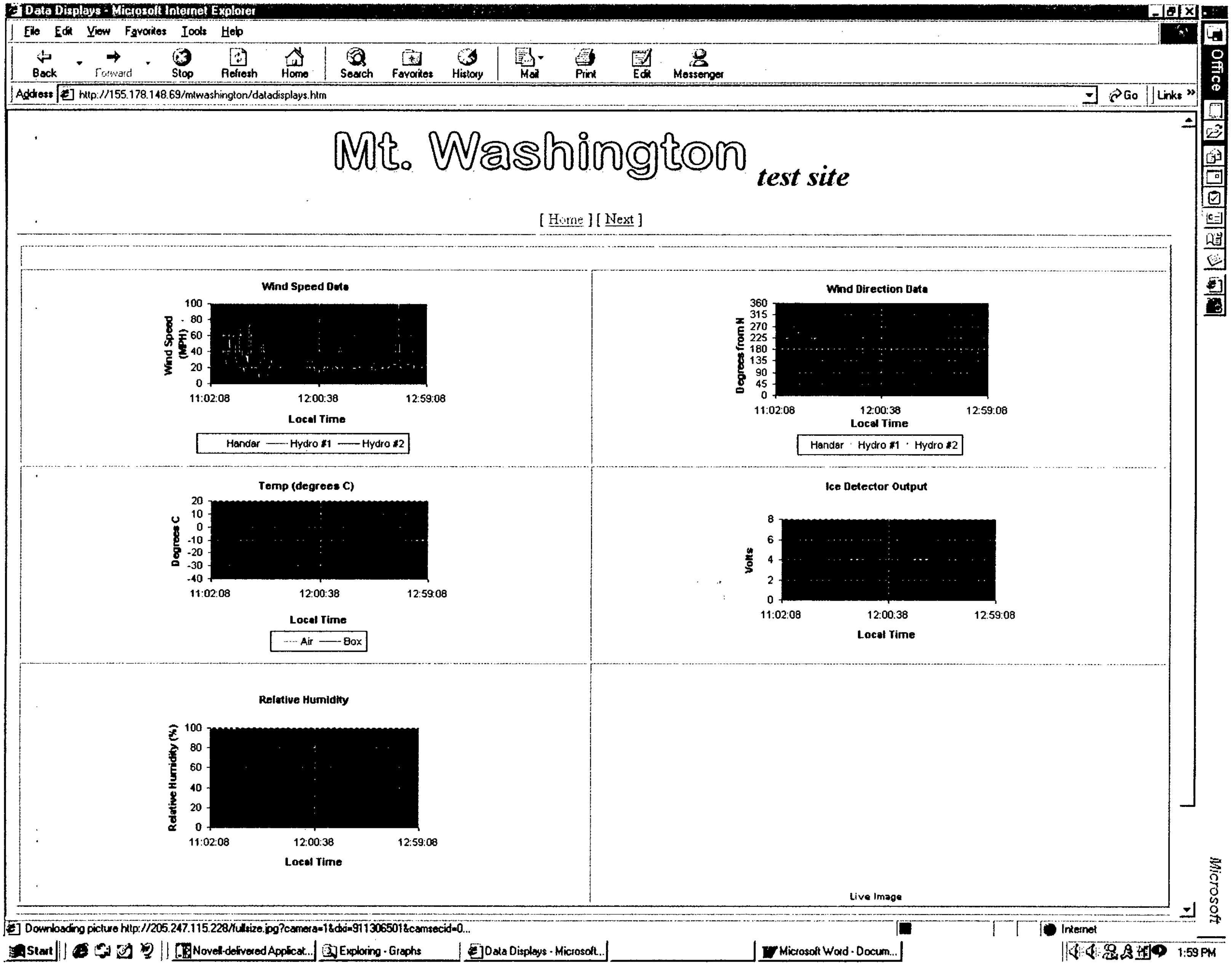


FIGURE 16. TEST SITE SENSOR DISPLAY WEB PAGE

via the Internet by accessing the test bed server and on-line data analysis tool. Data files were downloaded on a daily basis for later data reduction and analysis.

4.3 DATA COLLECTION AND ANALYSIS METHOD.

4.3.1 Data Recording.

Data collection was performed continuously with two data files being created and stored for each day. Data files were remotely retrieved from the test bed on a daily basis via the Internet using FTP. Approximately 37 days of test bed data were collected. Each day of data is comprised of two separate files. One file consists of the mechanical wind sensor data along with the other meteorological data, and the other file consists of the sonic anemometer data. The formats of these source files are provided in figures 17 and 18, respectively. In addition to the test bed data, hourly Aviation Routine Weather Report (METARs) routinely reported by the Observatory were separately collected through an archive source [7] via the Internet.

4.3.2 Data Reduction.

All recorded data was remotely downloaded to the Technical Center for analysis. A custom set of Digital Visual Fortran 95 software routines were developed to perform the bulk of the test bed data reduction and analysis. The programs perform full data decoding, and implement a variety of data quality analysis and normalization routines. Several conventional meteorological wind conversion and rectification techniques were also incorporated. Two types of output are provided by the program. The first is hourly mean and standard deviation values of the observed and computed weather parameters, along with a collection of corresponding hourly surface observations from the Observatory. A sample of the hourly summaries and weather observations is shown in figure 19. The second type of output from the program is a time series of ~10-s averaged observed and computed weather data. A sample of this output is shown in figure 20. The legend for figures 19 and 20 is furnished in figure 21. Output from the program along with the hourly weather observations were merged and imported into Microsoft Excel 97 spreadsheets to facilitate plotting. A sample worksheet is shown in figure 22.

4.3.3 Data Visualization.

Final data visualization, analyses, and interpretation were accomplished using graphical and plotting routines provided in Excel. Two plots were created for each day of data. Samples of the plots are provided in figures 23 and 24. The first plot shows the wind speeds and additional weather data from the test bed and hourly surface observations. The rotor, sonic, and observed wind speed and gust speeds are shown on the primary ordinate axis. Wind data from the Number 1 set of mechanical sensors is not shown because heater failures which occurred during installation of the rotor sensor prevented the use of its associated direction vane. Wind speeds from the sonic sensor are plotted over the rotor wind speeds. For reference, a red-dashed horizontal baseline is used to visually depict a 35-knot (kn) wind threshold, which is one of the wind speed restrictions under the current Juneau Operations Specification, depending on the particular aircraft flight path and mountain wind conditions. Values of temperatures and visibility, and normalized values of the icing sensor and relative humidity in percent, are plotted

08:35:42,42,259.8,.3,42,237.8,.485,5.211,85.5,1.228,10.93

Field	1	2	3	4	5	6	7	8	9	10	11
Example	**08:35:42**	**42**	**259.8**	**.3**	**42**	**237.8**	**.485**	**5.211**	**85.5**	**1.228**	**10.93**
Description	DAS Time	Mechanical #1		Rsrved	Mechanical #2		Rsrved	Temp (C)	RH (percent)	Ice (V)	DAS Temp (C)
		Speed (MPH)	Dir		Speed (MPH)	Dir					

File:

```
08:35:42,42,259.8,.3,42,237.8,.485,5.211,85.5,1.228,10.93
08:35:52,44,244.1,.455,44,249.9,.416,5.214,85.5,1.225,10.93
08:39:31,43,240.9,.472,43,239.4,.48,5.404,84.4,1.211,10.98
08:39:41,44,233.8,.496,44,242.3,.466,5.407,84.3,1.22,10.98
08:39:51,41,235.3,.492,41,242,.468,5.414,84.3,1.235,10.99
08:40:01,44,271.1,0,42,261.2,.278,5.42,84.2,1.229,10.99
08:40:11,43,222.8,.504,43,252.3,.394,5.424,84.3,1.23,11
08:40:21,42,253.5,.383,41,231.7,.5,5.42,84.4,1.217,11
08:40:31,51,255.8,.355,50,233.4,.496,5.43,84.9,1.204,11
08:40:41,47,267,.157,48,249.2,.422,5.436,85.2,1.217,11
08:40:51,50,246.6,.441,49,221.7,.503,5.45,85,1.208,11.01
08:41:01,50,257.9,.327,51,264.2,.221,5.453,85,1.212,11.01
08:41:11,44,264.4,.217,44,252.3,.393,5.469,84.7,1.209,11.01
08:41:21,41,251.1,.405,40,241.3,.471,5.469,84.4,1.215,11.01
08:41:31,39,277.8,0,38,246.7,.441,5.486,84.2,1.202,11.02
08:41:41,38,266.3,.172,37,263.4,.237,5.489,84.2,1.214,11.02
08:41:51,40,260.6,.287,40,250.1,.414,5.495,84.3,1.196,11.02
08:42:01,41,253.1,.385,41,246.7,.44,5.492,84.4,1.199,11.03
08:42:11,47,253.5,.382,47,246.7,.441,5.509,84.6,1.191,11.03
08:42:21,46,241.5,.469,45,254.7,.368,5.518,84.5,1.196,11.03
```

FIGURE 17. DATALOGGER FILE FORMAT

08:35:36^ W1P2480018.5MEF~

Field	1	2	3	4	5	6	7	8	9
example	**08:35:36**	^	**W1**	**P**	**248**	**0018.5**	**M**	**EF**	~
Description	Time	02h (STX)	1-s ave indicator	Sensor 'Pass' flag	Dir	Speed	mph	Checksum	03h (ETX)

File:

```
17:02:51^W1P0110026.1MDE~
17:02:53^W1P0140028.7ME9~
17:02:57^W1P0110027.6ME4~
17:02:59^W1P0110027.6ME4~
17:03:00^W1P0120028.5ME5~
17:03:02^W1P0120028.5ME5~
17:03:03^W1P0120028.5ME5~
17:03:05^W1P0110029.9ME9~
17:03:09^W1P0110029.9ME9~
17:03:10^W1P0110029.9ME9~
17:03:12^W1P0120028.2ME2~
17:03:13^W1P0120028.2ME2~
17:03:15^W1P0120028.2ME2~
17:03:16^W1P0100027.0MDD~
17:03:21^W1P0100027.0MDD~
17:03:22^W1P0100027.0MDD~
17:03:23^W1P0070027.2ME5~
17:03:25^W1P0070027.2ME5~
17:03:26^W1P0190030.9ME9~
17:03:28^W1P0190030.9ME9~
17:03:32^W1P0150027.1ME3~
17:03:34^W1P0150027.1ME3~
17:03:35^W1P0150027.1ME3~
17:03:37^^W1P0110033.1MDC~
17:03:38^W1P0110033.1MDC~
17:03:40^W1P0100029.8ME7~
17:03:44^W1P0140035.5ME5~
17:03:46^W1P0200029.4ME4~
17:03:47^W1P0200029.4ME4~
17:03:49^W1P0200029.4ME4~
17:03:50^W1P0140035.1ME1~
17:03:52^W1P0140035.1ME1~
17:03:53^W1P0140035.1ME1~
17:03:58^W1F9990999.9M08~
17:03:59^W1F9990999.9M08~
17:04:01^W1P0180032.3ME4~
17:04:02^W1P0180032.3ME4~
17:04:04^W1P0150031.5ME2~
```

Time delta > 1 second

Extra STX character

Sensor failure flags

FIGURE 18. ULTRASONIC FILE FORMAT

Mt. Washington Data

```
DATE =  0316      [1]

| 2 | 3 | 4 | 5 | 6 |

2359 160459Z 31066G78KT 0SM -SN BLSN FZFG VV000 M14/M14 RMK  LGT ICG
0055 160555Z 31070G83KT 0SM BLSN FZFG VV000 M15/M15 RMK  SNE35 LGT ICG
0159 160659Z 31076G97KT 0SM BLSN FZFG VV000 M15/M15 RMK  PK WND 310103/45 LGT ICG
0259 160759Z 32070G93KT 0SM BLSN FZFG VV000 M16/M16 RMK  PK WND 310106/10 LGT ICG
0353 160853Z 32081G109KT 0SM BLSN FZFG VV000 M16/M16 RMK  MOD ICG
0459 160959Z 32078G119KT 0SM BLSN FZFG VV000 M18/M18 RMK  LGT ICG
0557 161057Z 32077G107KT 0SM BLSN FZFG VV000 M18/M18 RMK  PK WND 320114/30 LGT ICG
0655 161155Z 32066G82KT 0SM BLSN FZFG VV000 M18/M18 RMK  PK WND 320108/25 LGT ICG
0747 161247Z 32076G105KT 0SM BLSN FZFG VV000 M18/M18 RMK  LGT ICG
0858 161358Z 29070G82KT 0SM BLSN FZFG VV000 M18/M18 RMK  MOD ICG
0952 161452Z 30076G88KT 0SM BLSN FZFG VV000 M17/M17 RMK  MOD ICG
1058 161558Z 29083G93KT 0SM BLSN FZFG VV000 M16/M16 RMK  MOD ICG
1159 161659Z 29076G92KT 1/16SM BLSN FZFG VV000 M16/M16 RMK  SUN DMLY VSBL LGT ICG
1247 161747Z 29076G96KT 1/16SM DRSN FZFG VV000 M16/M16 RMK  FZFG INTMT SUN DMLY VSBL LGT ICG
1359 161859Z 28070G88KT 30SM DRSN FEW020 M14/M17 RMK  INTMT FZFG LGT ICG
1453 161953Z 29078G94KT 40SM DRSN FEW003 SCT020 M13/M16
1551 162051Z 28071G83KT 40SM DRSN FEW003 SCT020 M13/M15
1659 162159Z 28063G73KT 5SM DRSN OVC002 M13/M15 RMK  CIG LWRG RPDLY
1752 162252Z 28063G72KT 0SM DRSN FZFG VV000 M13/M13 RMK  LGT ICG
1849 162349Z 28063G73KT 0SM DRSN FZFG VV000 M12/M12 RMK  LGT ICG
1950 170050Z 28071G83KT 0SM DRSN FZFG VV000 M12/M12 RMK  LGT ICG
2057 170157Z 28069G77KT 0SM DRSN FZFG VV000 M12/M12 RMK  LGT ICG
2158 170258Z 28070G82KT 0SM DRSN FZFG VV000 M12/M12 RMK  LGT ICG
2258 170358Z 29066G83KT 0SM DRSN FZFG VV000 M11/M11 RMK  LGT ICG
2357 170457Z 28073G82KT 0SM DRSN FZFG VV000 M11/M11 RMK  LGT ICG
0050 170550Z 28071G82KT 0SM DRSN FZFG VV000 M11/M11 RMK  LGT ICG

      | 9 | 10 | 11 | 12 | | 13 | 14 | 15 | | 16 | 17 | 18 | | 19 | 20 |

[7] → 00-01   1 ( 99.9)  98    326  0    326 16    318 60       0 -16    16 -60     7 -44        -13   90
[8] →                             41        10  2                12   2
      01-02 131 ( 83.6)  98    330  0    327 21    321 58       2 -21    10 -58     8 -37        -13   90
                                  16        13  2      5  9     12   2    13   9    10   8
      02-03 186 ( 72.4)  97    330  0    329 20    322 57       1 -20    11 -57     8 -37        -14   90
                         11       35        21  3      8 11     16   3    16  11    11  10
      03-04     ( 43.7)  56    331  0    324 26    321 61       7 -26    10 -61     2 -35        -14   89
                         47       18        16  2      6 10     16   2    17  10    13   9
      04-05 285 ( 44.8)  98    329  0    311 30    320 61      18 -30    10 -61    -9 -31        -15   89
                          1       26        13  5      7 10     16   5    19  10    10   9
      05-06 266 ( 53.4)  98    346  0    316 33    316 78      29 -33    28 -78     0 -45        -16   88
                          5       52        16  2     35 53     31   2    45  53    36  53
```

FIGURE 19. SUMMARY FILE FORMAT

1

DATE = 0226

9	13		14		15		16		17		18		19	20	12
00:00:06	44.7	15.3	36.4	22.7	43.8	24.3	8.3	-7.4	0.9	-9.0	-7.4	-1.6	-11.1	90.3	98.2
00:00:16	26.5	15.9	24.6	22.7	37.4	24.2	1.9	-6.7	-10.9	-8.3	-12.8	-1.5	-11.1	90.5	98.3
00:00:26	19.6	15.3	26.3	21.5	32.4	20.9	-6.7	-6.1	-12.8	-5.5	-6.1	0.6	-11.1	90.6	98.3
00:00:36	21.2	12.3	33.9	18.4	32.1	16.1	-12.6	-6.1	-10.9	-3.8	1.8	2.3	-11.1	90.7	98.3
00:00:46	32.2	11.6	30.8	17.2	34.6	18.1	1.4	-5.5	-2.4	-6.4	-3.8	-0.9	-11.1	90.7	98.3
00:00:56	51.7	11.6	47.2	17.8	40.1	20.3	4.5	-6.1	11.6	-8.7	7.1	-2.6	-11.1	90.7	98.3
00:01:06	64.0	13.5	37.6	19.0	43.1	20.7	26.4	-5.5	20.9	-7.2	-5.5	-1.7	-11.1	90.7	98.2
00:01:16	39.8	12.9	26.9	19.0	42.6	19.5	12.9	-6.1	-2.8	-6.7	-15.7	-0.5	-11.1	90.6	98.3
00:01:26	45.0	13.5	37.5	19.6	39.5	20.7	7.5	-6.1	5.5	-7.2	-2.0	-1.0	-11.1	90.6	98.4
00:01:36	40.1	13.5	42.7	19.0	52.1	18.5	-2.5	-5.5	-12.0	-5.0	-9.4	0.5	-11.1	90.5	98.3
00:01:46	58.6	14.7	43.0	20.2	47.9	18.8	15.6	-5.5	10.7	-4.1	-4.9	1.4	-11.1	90.5	98.3
00:01:56	38.8	14.1	31.2	19.6	45.8	18.7	7.6	-5.5	-7.0	-4.6	-14.6	0.9	-11.1	90.5	98.2
00:02:06	41.8	12.3	22.2	17.8	41.7	16.7	19.6	-5.5	0.1	-4.5	-19.5	1.0	-11.1	90.5	98.2
00:02:16	47.1	12.3	37.3	17.8	45.9	19.3	9.8	-5.5	1.2	-7.1	-8.6	-1.6	-11.1	90.5	98.3
00:02:26	41.0	13.5	47.6	19.0	39.1	18.9	-6.6	-5.5	1.9	-5.4	8.5	0.1	-11.1	90.5	98.3
00:02:36	56.3	13.5	49.4	17.8	49.9	17.9	6.9	-4.3	6.4	-4.4	-0.5	-0.2	-11.1	90.4	98.3
00:02:46	48.0	12.9	34.8	17.2	43.5	17.0	13.1	-4.3	4.5	-4.2	-8.7	0.1	-11.1	90.4	98.3
00:02:56	34.8	10.4	26.1	15.3	38.4	15.0	8.7	-4.9	-3.6	-4.6	-12.3	0.3	-11.1	90.4	98.3
00:03:06	50.9	11.6	39.9	17.2	41.3	19.1	11.0	-5.5	9.6	-7.5	-1.4	-2.0	-11.1	90.3	98.3
00:03:16	59.5	12.3	58.5	17.8	55.1	17.8	1.0	-5.5	4.4	-5.5	3.4	0.0	-11.2	90.3	98.3
00:03:26	55.2	12.9	43.7	17.8	51.4	17.4	11.5	-4.9	3.8	-4.6	-7.7	0.4	-11.2	90.2	98.3
00:03:36	52.7	13.5	37.3	17.8	42.2	18.6	15.4	-4.3	10.5	-5.1	-4.9	-0.8	-11.2	90.2	98.2
00:03:46	37.6	14.7	31.0	20.2	40.9	21.1	6.6	-5.5	-3.3	-6.4	-9.9	-0.9	-11.2	90.2	98.2
00:03:56	61.6	15.3	33.7	22.1	35.7	23.9	27.9	-6.7	25.9	-8.6	-2.0	-1.8	-11.2	90.2	98.2
00:04:06	28.1	16.6	35.3	22.7	47.8	22.6	-7.3	-6.1	-19.7	-6.0	-12.5	0.1	-11.2	90.2	98.3
00:04:16	41.8	15.3	33.4	22.1	37.7	22.2	8.4	-6.7	4.1	-6.9	-4.3	-0.1	-11.2	90.2	98.3
00:04:26	25.0	14.7	19.7	20.8	35.0	21.1	5.3	-6.1	-10.0	-6.3	-15.3	-0.2	-11.2	90.2	98.3
00:04:36	27.3	15.3	26.1	22.7	27.3	22.6	1.2	-7.4	0.0	-7.3	-1.2	0.1	-11.2	90.3	98.2
00:04:46	24.6	15.9	10.9	20.8	36.0	20.8	13.7	-4.9	-11.4	-4.9	-25.1	0.0	-11.2	90.3	98.3
00:04:56	34.8	12.3	39.9	17.2	32.8	15.2	-5.0	-4.9	2.0	-2.9	7.1	2.0	-11.2	90.4	98.3
00:05:06	46.7	9.8	31.9	14.7	45.8	14.7	14.7	-4.9	0.9	-4.9	-13.9	0.0	-11.2	90.4	98.3
00:05:16	35.3	11.0	41.7	15.9	40.8	17.3	-6.3	-4.9	-5.5	-6.3	0.9	-1.4	-11.2	90.4	98.3
00:05:26	37.5	10.4	24.6	14.7	42.9	14.7	12.9	-4.3	-5.4	-4.3	-18.3	0.0	-11.2	90.4	98.3
00:05:36	34.8	10.4	42.6	15.3	40.5	16.4	-7.8	-4.9	-5.7	-6.0	2.1	-1.1	-11.2	90.3	98.3
00:05:46	17.5	9.8	22.0	15.3	43.3	15.8	-4.5	-5.5	-25.8	-6.0	-21.3	-0.5	-11.2	90.3	98.3
00:05:56	45.1	11.0	47.4	17.2	40.1	17.4	-2.3	-6.1	5.0	-6.4	7.3	-0.3	-11.2	90.2	98.2

FIGURE 20. OUTPUT FILE FORMAT

Note	Group	Description
1	File	Date (mmdd)
2	METAR	Time Converted (LST)
3		Day of month and time in UTC (ddhhmm)
4		Wind direction, speed, and gust (true north, knots)
5		Visibility, present weather, sky conditions, temperatures
6		Remarks, including icing information (bold)
7		Mean Values
8		Standard Deviation Values
9	Test bed	Analysis period (hour LST)
10		Sample size, N (sample sizes less than 300 are not shown)
11		Sonic Failure Rate (percent)
12		Normalized Icing (percent)
13		Mechanical #1 direction and speed
14		Mechanical #2 direction and speed
15		Sonic direction and speed
16		(Mechanical #1 - Mechanical #2) direction and speed difference
17		(Mechanical #1 - Sonic) direction and speed difference
18		(Mechanical #2 - Sonic) direction and speed difference
19		Temperature (°C)
20		Relative Humidity (percent)

FIGURE 21. LEGEND TO SUMMARY AND OUTPUT FILE FORMATS

DATE = 0303

Time	NWS Dir	NWS Spd	NWS Gust	Vis	Wx	Cloud	Temp	Remarks	Hydro1 Dir	Hydro1 Spd	Hydro2 Dir	Hydro2 Spd	Handar Dir	Handar Spd	H1-H2 Dir	H1-H2 Spd	H1-H2 Dir	H1-H2 Spd	H2-Han Dir	H2-Han Spd	Temp	RH	Ice
0:00:07	290	48	57	1/16SM	3LSN FZF(	VV000	M16/M16	FG INTMT	173.3	0	315.2	50.9	0	0	-141.9	-50.9	0	0	0	0	-14.8	88.1	-0.2
0:00:17									173.3	0	314.2	52.7	0	0	-140.9	-52.7	0	0	0	0	-14.8	88	-0.3
0:00:27									173.3	0	315.3	51.5	0	0	-142	-51.5	0	0	0	0	-14.8	88.1	-0.3
0:00:37									173.3	0	324	51.5	0	0	-150.7	-51.5	0	0	0	0	-14.8	88.1	-0.2
0:00:47									173.3	0	301.7	55.2	0	0	-128.4	-55.2	0	0	0	0	-14.8	88	-0.2
0:00:57									173.3	0	316.8	50.3	0	0	-143.5	-50.3	0	0	0	0	-14.8	88	-0.2
0:01:07									173.3	0	320.7	43.5	0	0	-147.4	-43.5	0	0	0	0	-14.8	88	-0.3
0:01:17									173.3	0	326.7	42.3	0	0	-153.4	-42.3	0	0	0	0	-14.8	88	-0.3
0:01:27									173.3	0	326.7	41.7	0	0	-153.4	-41.7	0	0	0	0	-14.8	88	-0.3
0:01:37									173.3	0	322.5	44.7	0	0	-149.2	-44.7	0	0	0	0	-14.8	88	-0.3
0:01:47									173.3	0	320.9	42.3	0	0	-147.6	-42.3	0	0	0	0	-14.8	88	-0.3
0:01:57									173.3	0	327.6	42.9	0	0	-154.3	-42.9	0	0	0	0	-14.8	88	-0.3
0:02:07									173.3	0	322	44.7	0	0	-148.7	-44.7	0	0	0	0	-14.8	88	-0.3
0:02:17									173.3	0	315	37.4	0	0	-141.7	-37.4	0	0	0	0	-14.8	88	-0.3
0:02:27									173.3	0	337.3	39.8	0	0	-164	-39.8	0	0	0	0	-14.8	88	-0.3
0:02:37									173.3	0	7.5	46.6	0	0	165.8	-46.6	0	0	0	0	-14.8	88	-0.3
0:02:47									173.3	0	339.9	39.8	0	0	-166.6	-39.8	0	0	0	0	-14.8	88	-0.3
0:02:57									173.3	0	336.5	42.3	0	0	-163.2	-42.3	0	0	0	0	-14.8	88	-0.3
0:03:07									173.3	0	326.5	41.1	0	0	-153.2	-41.1	0	0	0	0	-14.8	88	-0.3
0:03:17									173.3	0	334.5	45.4	0	0	-161.2	-45.4	0	0	0	0	-14.8	88	-0.3
0:03:27									173.3	0	341.5	46	0	0	-168.2	-46	0	0	0	0	-14.8	88	-0.3
0:03:37									173.3	0	330.1	50.9	0	0	-156.8	-50.9	0	0	0	0	-14.8	88	-0.3
0:03:47									173.3	0	312.7	42.9	0	0	-139.4	-42.9	0	0	0	0	-14.8	88	-0.3
0:03:57									173.3	0	304.8	37.4	0	0	-131.5	-37.4	0	0	0	0	-14.8	88	-0.3
0:04:07									173.3	0	335	43.5	0	0	-161.7	-43.5	0	0	0	0	-14.8	88	-0.3
0:04:17									173.3	0	334.5	43.5	0	0	-161.2	-43.5	0	0	0	0	-14.8	88	-0.3
0:04:27									173.3	0	332.1	38.6	0	0	-158.8	-38.6	0	0	0	0	-14.8	88	-0.3
0:04:37									173.3	0	335.7	49	0	0	-162.4	-49	0	0	0	0	-14.8	88	-0.3
0:04:47									173.3	0	322.7	46	0	0	-149.4	-46	0	0	0	0	-14.8	88	-0.2
0:04:57									173.3	0	331.5	46	0	0	-158.2	-46	0	0	0	0	-14.8	88	-0.3
0:05:07									173.3	0	328.9	48.4	0	0	-155.6	-48.4	0	0	0	0	-14.8	88	-0.2
0:05:17									173.3	0	350.1	49	0	0	-176.8	-49	0	0	0	0	-14.8	88	-0.3
0:05:27									173.3	0	327.7	44.1	0	0	-154.4	-44.1	0	0	0	0	-14.8	88	-0.2
0:05:37									173.3	0	330.1	47.8	0	0	-156.8	-47.8	0	0	0	0	-14.8	88	-0.3
0:05:47									173.3	0	325.8	49	0	0	-152.5	-49	0	0	0	0	-14.8	88	-0.2
0:05:57									173.3	0	325.4	46	0	0	-152.1	-46	0	0	0	0	-14.8	88	-0.2
0:06:07									173.3	0	322.2	48.4	0	0	-148.9	-48.4	0	0	0	0	-14.8	88	-0.2
0:06:17									173.3	0	328.1	49.7	0	0	-154.8	-49.7	0	0	0	0	-14.8	88	-0.3
0:06:27									173.3	0	327.6	55.2	0	0	-154.3	-55.2	0	0	0	0	-14.8	88	-0.2
0:06:37									173.3	0	324.8	53.3	0	0	-151.5	-53.3	0	0	0	0	-14.8	88	-0.2
0:06:47									173.3	0	328.9	52.7	0	0	-155.6	-52.7	0	0	0	0	-14.8	88	-0.2

FIGURE 22. SPREADSHEET FORMAT

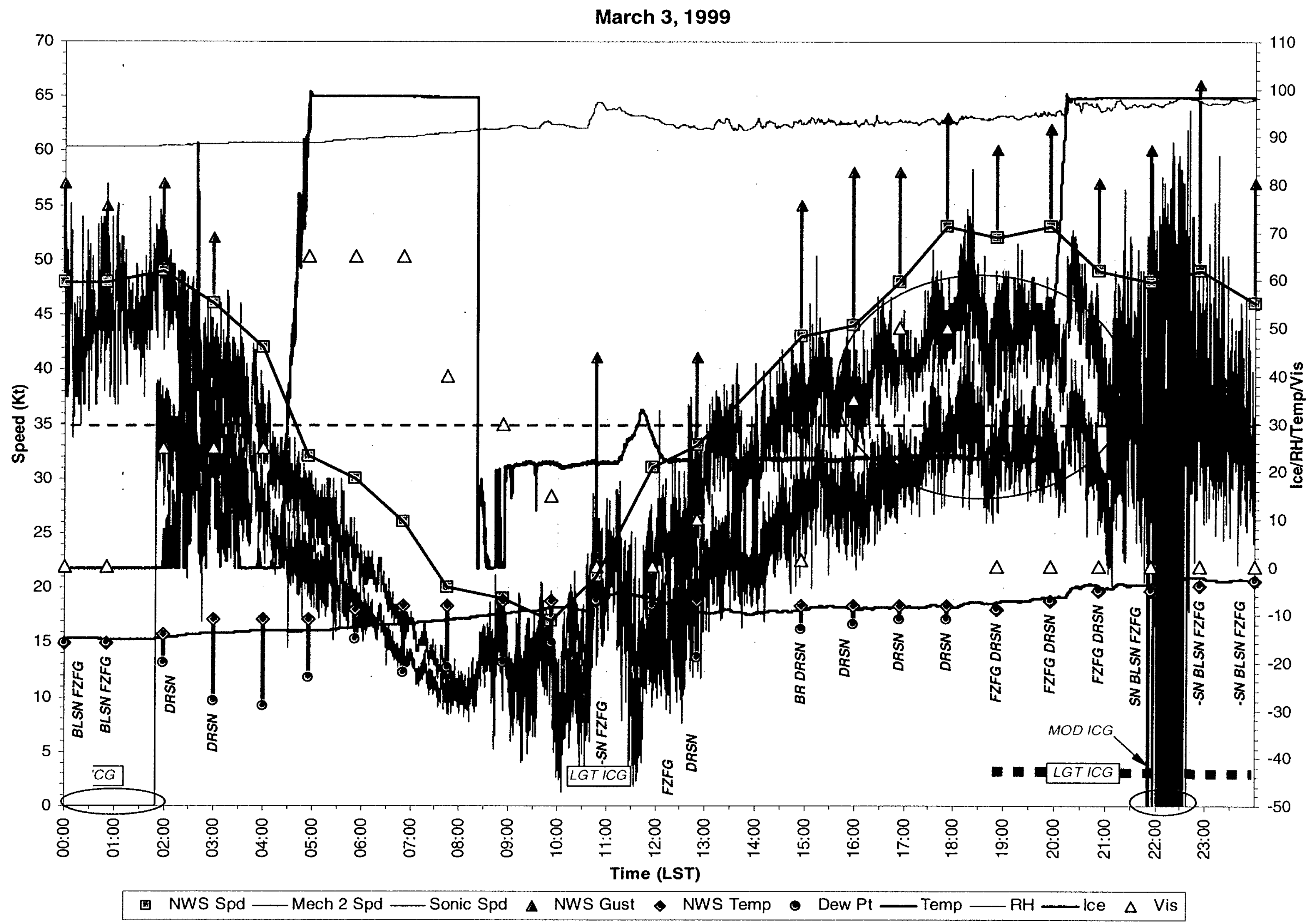


FIGURE 23. SAMPLE WIND SPEED PLOT

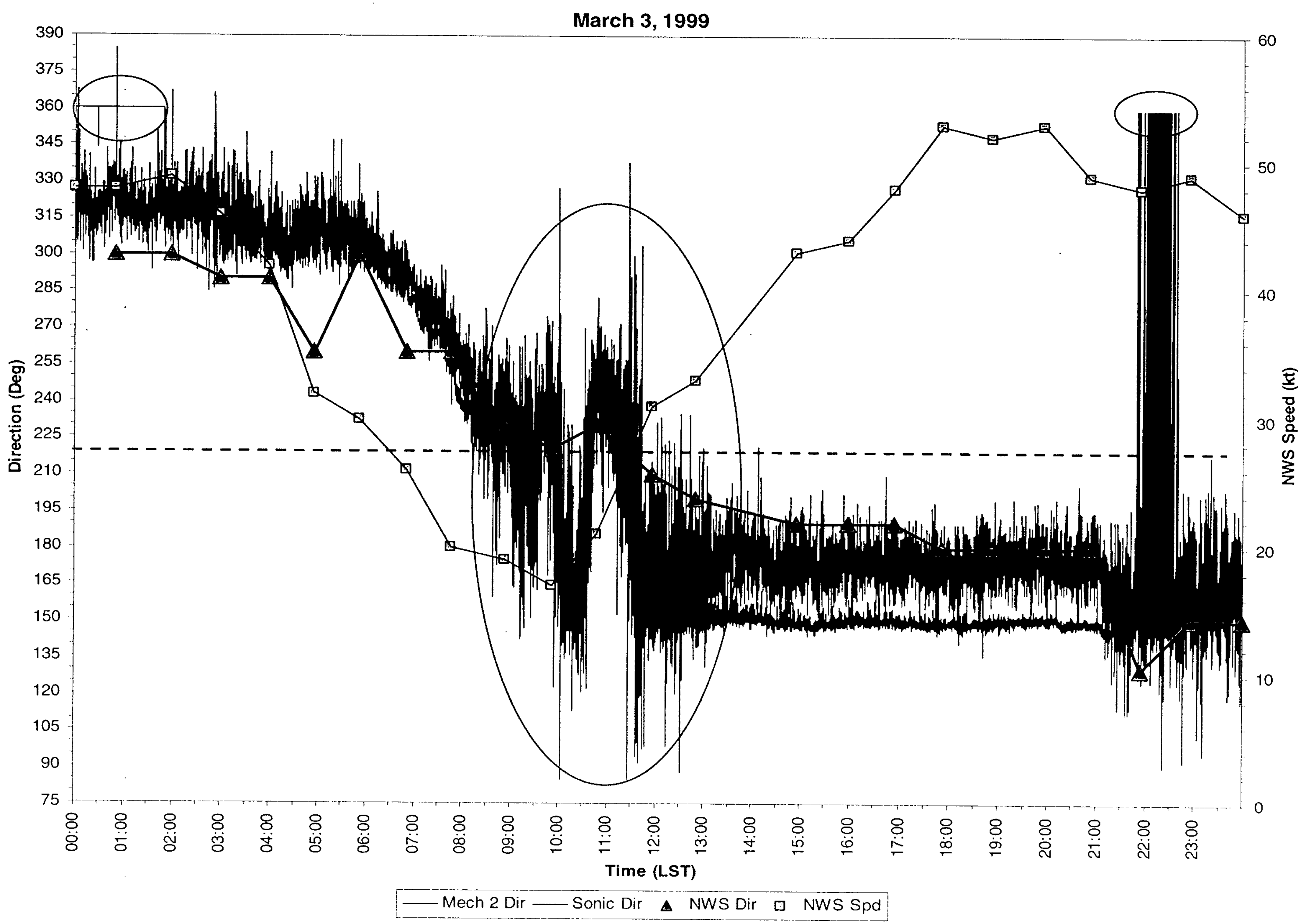


FIGURE 24. SAMPLE WIND DIRECTION PLOT

on the secondary ordinate axis. Drop lines depict the spread between the observed wind speed and gust values, and the observed temperature and dew point temperature. Text from the Present Weather field in the hourly surface observations is also indicated as the vertically aligned italicized text which is generally positioned below the temperature values. Additional icing information extracted from the Remarks field is indicated as light blue graphics and horizontally aligned italicized text at the bottom of the plots. Finally, ovals are added to point out particular cases and features of interest, which are discussed further in the text.

The second daily plot shows the direction vane, sonic, and observed wind directions along the primary ordinate axis. Sonic wind directions are plotted over the vane direction values. For reference, corresponding observed wind speed values are displayed according to the secondary ordinate axis. Red-dashed horizontal baselines are used to represent the azimuth orientation corresponding to the longitudinal axis of the test bed-mounting fixture. Ovals are used to point out particular cases and features further discussed in the text.

4.4 RESULTS/DISCUSSION.

A summary of the data collected over the 37-day study is presented appendix A. This overview breaks out the daily test bed data into separate cases according to prevailing weather conditions, and various wind, temperature, and relative humidity scenarios. The hourly mean and standard deviation values of the observed and computed weather parameters, along with corresponding hourly surface observations, are provided in appendix B. Excel worksheets showing the times series plots are given in the figures supplied in appendix C. Because of the large volume of data in these two appendices, they are provided as separate attachments to this report and are available through ACT-320. Output text files representing the time series of 10-s averaged observed and computed weather data are also available through ACT-320.

As previously mentioned, video images were not available for monitoring the test bed and wind sensors. This presented the largest shortcoming of the study, as there was no way to correlate sensor data and positively verify the existence and extent of icing on the sensors. Other difficulties encountered are noted in following paragraphs.

4.4.1 Ice Sensor.

Inspection of the plots shows that the behavior of the ice detector was erratic on occasions during the demonstration program. The time series are not consistent with the expected nominal response shown in figure 10. For instance, data for the period February 13–14, 1999, shows extended periods of observed icing, but the sensor output remained high without tripping the probes deicing heater. On other occasions, the sensor intermittently attempts to deice itself. Similar behavior is shown for the light icing period February 17–18, 1999. By the time the sensor's output voltage reaches 100 percent, the heater should be activated regardless of the external conditions. Further review of the data indicates there may have been a problem with the heater control system, as maximum output voltages of 6.8 volts direct current (Vdc) were recorded, which is greater than the sensor's 5 Vdc output voltage specification. Sensor performance may have also been affected by excessive ice buildup immediately around the probe caused by the flanges and rough edges associated with the I-beam and specially fabricated sensor

housing (see figure 9). The beam and unheated housing may have promoted the formation of ice around, rather than on, the probe. Original plans had called for wrapping the sensor housing with commercial heat tape; however, none was available through local vendors at the time of installation. For any future efforts, the housing should be wrapped with heat tape or the design modified to prevent excessive ice and snow build up. Alternate ice detection technologies should also be considered.

4.4.2 Relative Humidity Sensor.

The integrated air temperature and relative humidity probe also displayed erratic behavior on occasion during the demonstration program. A reasonable response for the relative humidity sensor, which is consistent with the observed dew point temperatures, is shown for February 27–28, 1999. However, erratic relative humidity response was noted on other occasions, particularly for February 25, 1999. The setup of the sensor was subsequently reviewed. The probe and radiation shield were mounted in a specially fabricated aluminum canister which was open at the bottom and approximately 0.5 m (1.5 feet) above the ground. Examination of figure 6 shows the test bed with snow and snowdrifts prior to installation of the sensors. The figure suggests that snow accumulation about the sensor housing may have closed off the bottom opening or contributed to ice buildup from below the canister. In any future effort, the canister should be raised in order to be unaffected by blowing and drifting snow.

4.4.3 Test bed Server.

Some problems with the remote access of the test bed server were experienced. Data collected and recorded during the period March 15–20, 1999, were sampled at different sample rates. Closer examination of the raw data for the 5-day period indicates that the datalogger and sonic sensor data sampling rates were erratic and consistently less than normal. During this period, the sonic sensor and datalogger sampling rates varied at about 1–5 and 7–13 s, respectively, whereas the corresponding nominal sampling rates are approximately fixed at 1 and 10 s. Based on a log of remote access activities, it was determined that the data acquisition process was affected, perhaps due to an errant process in the PC software following an unsuccessful remote login attempt.

4.4.4 Wind Sensors.

Sufficient data was collected during the effort to derive some useful results and preliminary conclusions on the wind sensor performance. Because of the expected and unexpected test bed limitations as well as the unavailability of the video camera, it is recognized that caution should be used in making any hard conclusions concerning the performance of the wind sensors. It is also noted that the sonic sensor was a prototype unit and no performance levels were implied or guaranteed by the manufacturer.

4.4.4.1 Mechanical Sensors.

During the course of installation and testing, several problems were encountered with the Number 1 rotor anemometer and direction vane. First, during installation, the rotor heater controller failed. Because the rotor anemometer was considered the more important of the two for testing, the direction vane heater controller was used to operate the rotor anemometer heater.

This rendered the direction vane heater inoperable, and consequently, the Number 1 direction vane was considered out of service. The Number 1 anemometer was operational at the completion of the installation. However, a total mechanical failure of the Number 1 rotor anemometer was subsequently experienced early in the study. It was found that the failure was due to excessive heater output resulting in damage to the rotor bearing assembly. The sensor and controller were subsequently removed and returned to the manufacturer.

Collected data indicates that on March 16, 1999, the mounting adapter of the Number 2 direction vane apparently loosened and turned during conditions in which the sensor had been experiencing sustained 60 kn winds and gusts to 90 kn, over the 14-hour period leading up to the event. The onset of this event is shown in figure 25. The result was an ~70° error in position throughout the remainder of the study, as indicated in the plots.

The plots were analyzed in light of the effects of the wind sensors on one another when winds were parallel to the longitudinal axis of the test bed-mounting fixture (see figure 3). Effects of the ultrasonic and the Number 2 mechanical sensors as the most leeward sensors of the array are illustrated in figures 23 and 24. These figures show the March 3, 1999, wind speeds and directions when the wind became approximately 220° and parallel to the test bed beginning at about 0900 Local Standard Time (LST). A pronounced effect was noted for the leeward sensors. This effect was anticipated because of the likelihood that significant ice masses would grow on the failed and inactive Number 1 sensors and masts. The plots in appendix C show this effect was also experienced on February 18, and on March 1, 4, and 6, 1999. On the other hand, little effect is seen when the winds are about 40° and the Mechanical 2 and ultrasonic sensors are effectively the windward sensors of the array, as experienced on March 10–11, 1999.

In general, good agreement among the wind sensors was seen for fair weather conditions, although a bias in wind direction differences among the wind sensors was observed. A small bias could be expected due to the sensor installation and the estimation procedure used to achieve azimuth alignment of the sensors; however, there are extended periods when the rotor wind speeds are consistently greater than the sonic wind speeds by as much as 10 kn or more. The possibility exists that ice forming on unheated or insufficiently heated surfaces could have disturbed airflow around one or both sensors.

Results for light winds are shown for February 19–21, 24–25, and March 11–14, 1999. In general, there is more wind direction variability for the mechanical direction vane than for the sonic sensor, especially for wind speeds greater than about 35 kn as shown for February 26, 1999.

An unusual event was noted for the direction vane during the period 0030–1100 LST on March 5, 1999. A time series of the wind direction data and the corresponding wind direction frequency histogram for the period are shown in figure 26. The figure shows a skewed wind direction distribution for the mechanical sensor indicating that the azimuthal movement of the direction vane was limited at ~318°. This effect may indicate the presence of an interfering ice formation on the southeast side of the sensor head stemming up and around from the sensor's mast. This observation is consistent with data shown for March 4, 1999, which shows that winds were consistently from ~150° under snow, freezing rain, and light icing conditions for a 12-hour period before the wind began to move back around to the north. It should be noted that the sonic

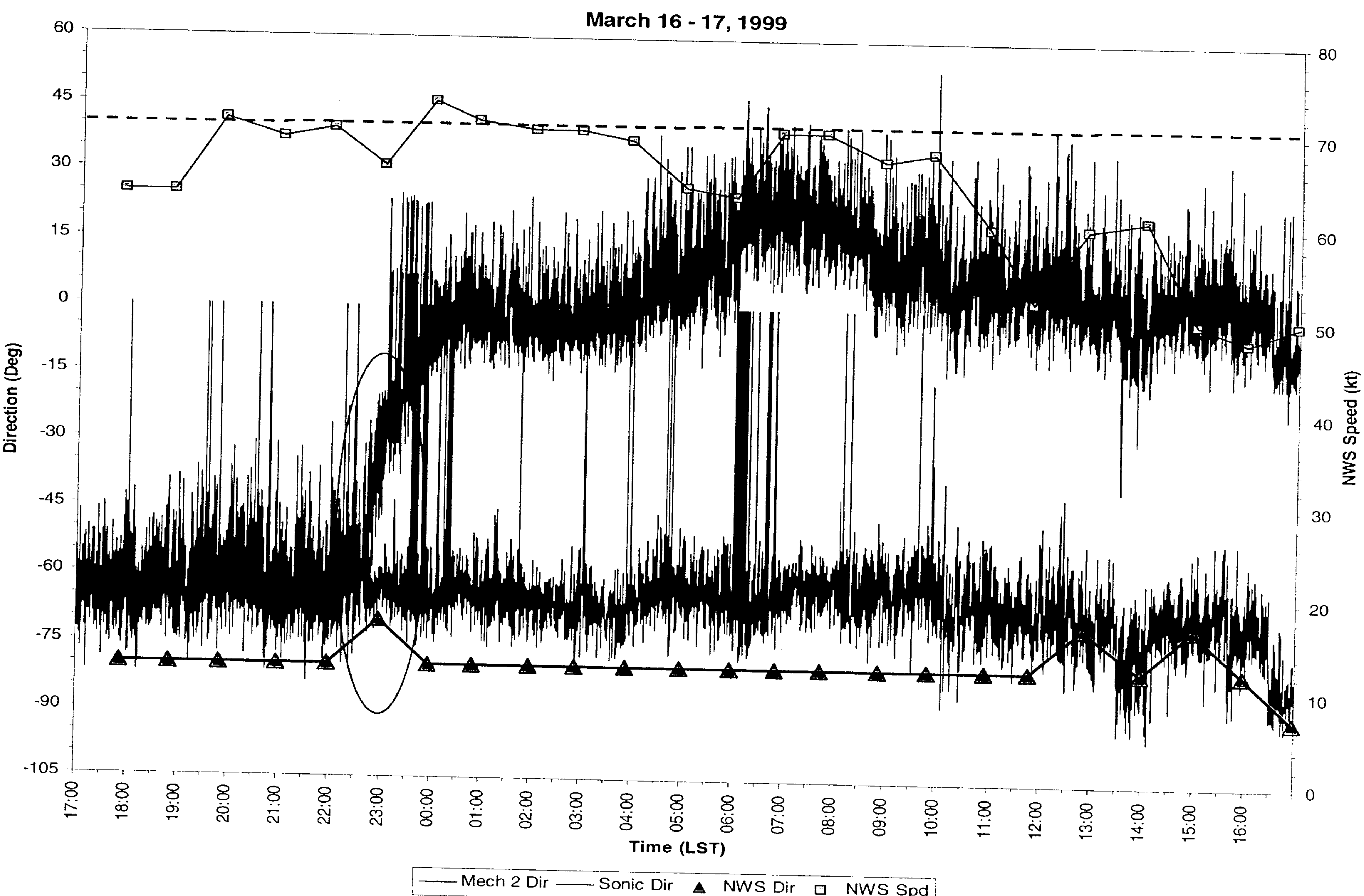
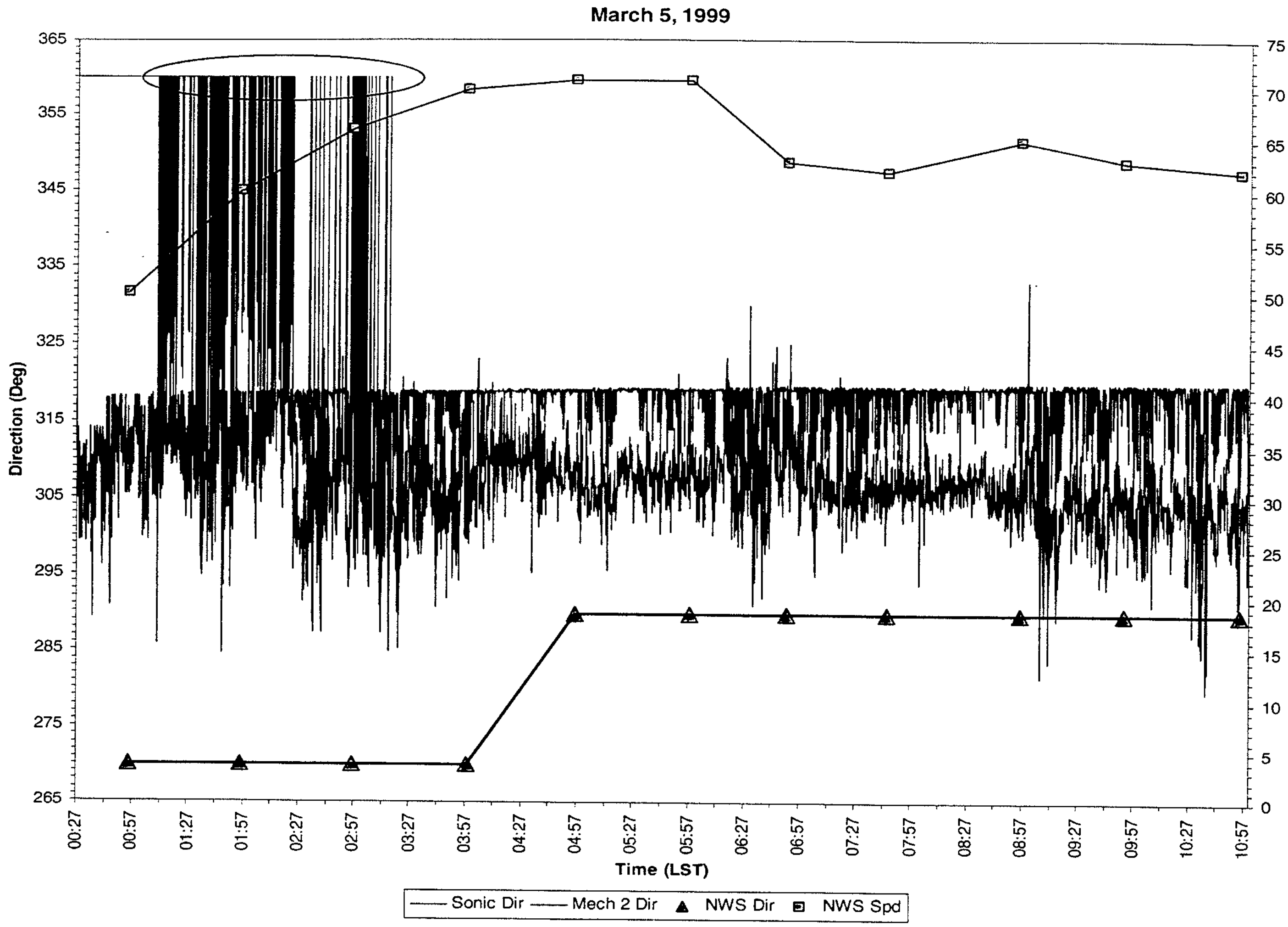


FIGURE 25. WIND DIRECTION FOR MARCH 16–17



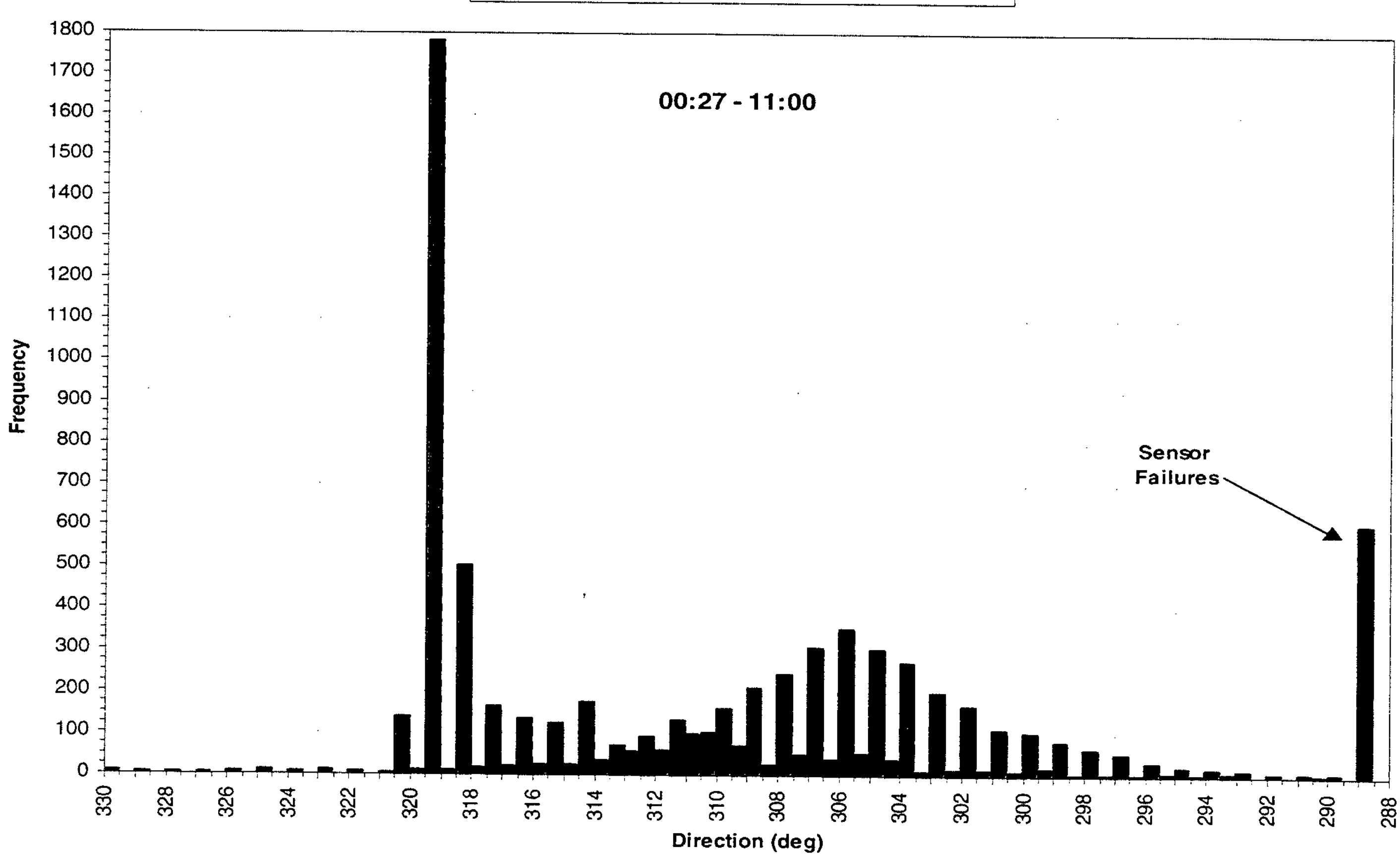


FIGURE 26. WIND DIRECTION DISTRIBUTION FOR 0027–1100 LST ON MARCH 5

sensor experienced a significant number of failures (~16 percent) during this period. Rime icing of the sensors was highly probable during this period, and is the likely cause of the failures.

Anomalies in the rotor speed were also noted for the approximately 13-hour period from 2000 LST on March 15, through 0845 on March 16, 1999, during which the present weather indicated snow, blowing snow, freezing fog, and light icing. Wind speeds for the period are shown in figure 27. During this period the mechanical sensor wind speeds dropped off to about 10–20 kn while observations indicated winds from 50–80 kn winds, gusting to almost 120 kn. As indicated in the figure, the sonic sensor experienced a significant number of failures also during this period. Again, conditions for rime icing were favorable and are the likely cause of the failures. It is not clear whether the slowing of the rotor anemometer was caused by ice accumulating on the rotor itself, or building up from the unheated mast below.

4.4.4.2 Ultrasonic Sensor.

Results of the ultrasonic sensor were reviewed. From the 37 days of data retrieved, a total of 742 hours (~31 days) of sonic anemometer data were recorded and collected. This sensor experienced a significant amount of data failures (total ~66 hours) throughout the experiment and was effectively unavailable approximately 9 percent of the time. A failure qualifies as a bad data flag received from the sensor as a result of unreliable readings. The failures appear highly correlated to snow and icing conditions. Collected data indicates the sensor experiences a large number of failures when there is light to moderate snow (including drifting and blowing snow), and icing, under certain wind and temperature conditions. The failures during these events are generally intermittent in nature, with frequencies proportional to the severity of the weather conditions. However, inspection of the plots shows there were instances where the sensor was in complete failure-mode over periods ranging from 2 to 3 continuous hours.

There were a significant number of these snow and icing events where the sensor was wandering in and out of failure mode (see February 28, and March 2, 4, 7, 8, 15–16, 1999). It should also be noted here that there were a number of occasions where the sensor was intermittently reporting supposedly valid data, and the data was found to be inaccurate and unreliable. An extreme case of this was found for March 7, 1999. On this occasion, the sensor was primarily in failure mode from about 1845–1930 LST because of a typical blowing-snow and light-icing event. During this period there were a few 'valid' sonic reports (sensor flag as Pass) which appear to be somewhat reasonable. However, there were also a number of 'valid' wind speed reports that ranged from 246 to 345 mph. In total, there were approximately 11.5 minutes of 1-second samples of sonic data where the data was greater than the sensor's reported operational range of 144 mph. Although this was the only extreme scenario found in the entire dataset, additional unreasonable data values were found on March 16, 19–20, 1999.

At this time, the exact cause of the sensor failures and inaccurate data are not known. Causes may be either rime ice buildup on or near the sensor transducers or the effects of precipitation and freezing fog traveling through the sensor sampling volume. Observed errors could also be caused by shadow effects of ice growing up from the sensor mast, or flow distortion around the sensor assembly from nearby sensors. It may also be possible that the heater output and/or duration may not be powerful enough to melt the ice, since the most significant number of

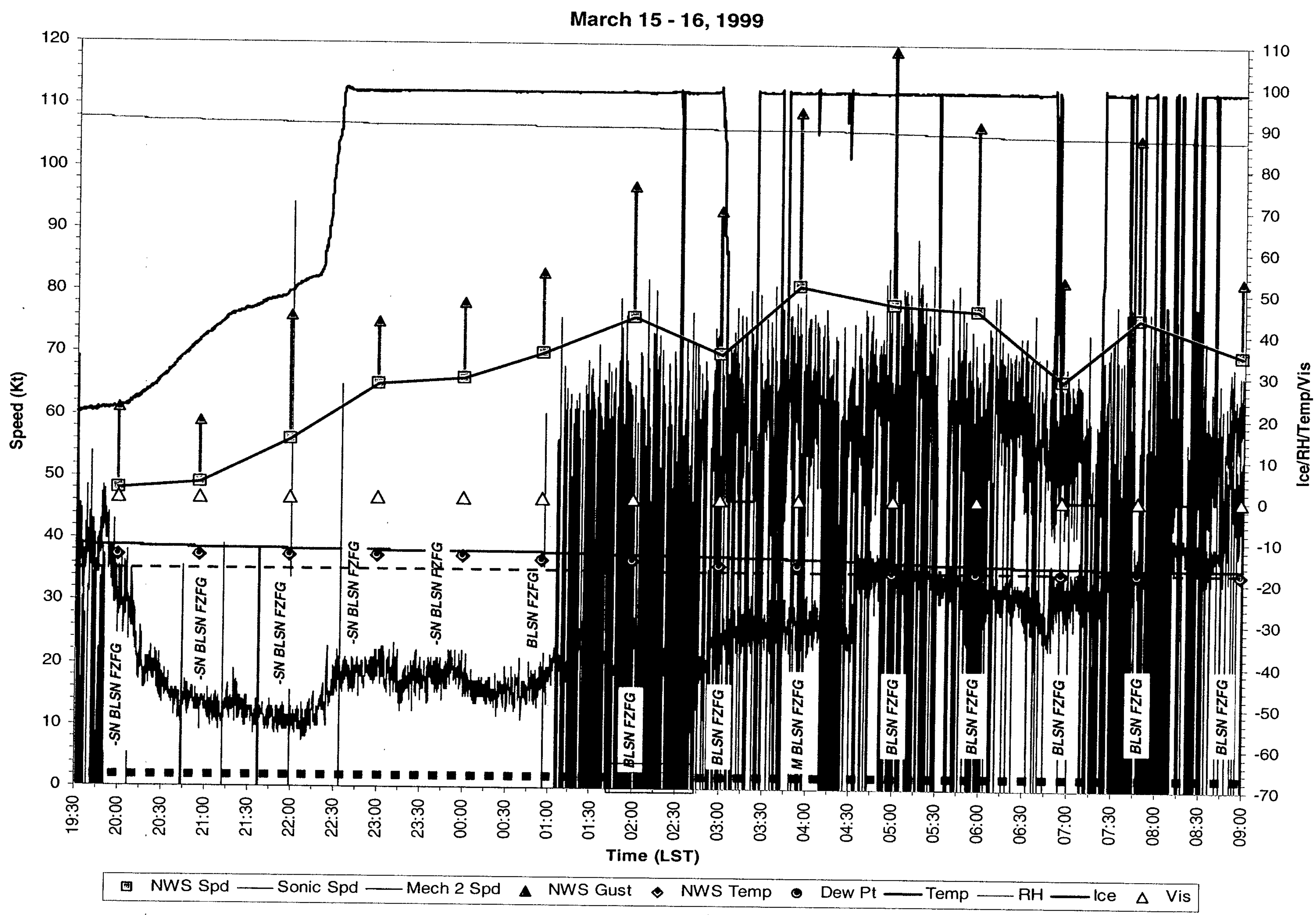


FIGURE 27. WIND SPEED FOR MARCH 15–16

failures occurred during icing events. Unfortunately, the difficulties encountered with the installation and operation of the video camera prevented the determination of which of the above scenarios, if any, is correct.

5. CONCLUSIONS.

This test effort was considered a preliminary survey and shakedown exercise, as a number of test assumptions including scheduling and setup limitations were understood before installation of the test bed. Funding delays resulted in slips in planning, coordination, and schedule. The installation was delayed until February, and took place during unfavorable weather conditions. The first 3 months of the winter season were consequently missed, and a burn-in period, which might have identified some of the problems with the test suite, was not available.

5.1 TEST BED SETUP.

The test site is remote, and it is recognized that the test methodology and setup for a similar and future effort could be improved and better controlled. Several needed enhancements to the test bed setup were identified, including the need for calibration and alignment procedures, better sensor siting, and improved equipment enclosure designs for the ice detector and the temperature and relative humidity sensors. Although the local and remote data collection and communications design and setup proved to be reliable, the need for a few improvements to the remote access of the test bed server and communications were also noted. Overall, a number of test setup, control, and data collection issues were identified and noted for preparation of a proposed follow-up effort.

5.2 WIND SENSOR PERFORMANCE.

Inspection of the data shows that the wind sensors were affected under certain snow and icing conditions. The sonic sensor experienced a significant amount of data failures throughout the experiment, and was effectively unavailable approximately 9 percent of the time. The failures are highly correlated to snow and icing conditions. In addition to the intermittent and long duration failures, there were instances when the sensor reported unrealistic wind speed values beyond the operational range of the sensor—but were declared as valid by the sensor. The sensor's internal quality control firmware should be flagging this obviously erroneous data. It is clear from the data that modification and further testing of the ultrasonic sensor would be needed before consideration for use in the Wind Hazard Information System (WHIS). Data and results in this report also suggest that, although the mechanical sensors may be suitably heated, large ice formations may grow up from the unheated sensor masts and consequently shield and affect the performance of these sensors.

6. RECOMMENDATIONS.

Based on the findings of the demonstration program, it is recommended that a larger scale and more controlled evaluation of several types of wind sensor technologies and sensors be performed on Mt. Washington in the winter of 2000–2001. The test bed would be set up in similar fashion as was done for the 1999 demonstration program, except the specific

improvements noted in this report would be incorporated to ensure a more controlled assessment. This would include improved sensor housing and siting considerations, investigation of an alternative ice detection sensor, and a more reliable video camera. Since it is realized that the success of this proposed study would require a reliable and robust instrument, alternative means for mounting the video camera would be assessed. Other cameras would also be considered. Finally, efforts would be made to secure cleaner electrical power and signal communications to the heated shelter, and test bed instruments and equipment. Additional planning considerations would include commercial grade or National Electrical Manufacturers Association (NEMA)-rated environmental instrument enclosures. The on-line monitoring, and data reduction and analysis tools, including the software and plotting programs developed for the 1999 demonstration would be used to monitor, analyze, and present the data.

It is recommended that the ultrasonic heated anemometer be reevaluated. It is expected that, if the conditions surrounding data failures could be clearly defined and linked to the sensor itself, the manufacturer might be willing to consider signal processing and heater modifications to correct the failures and marginal sensor performance noted during the demonstration. This would allow for consideration of alternate sensors for use in the Wind Hazard Information System (WHIS). The mechanical sensors should also be reevaluated to verify the performance and reliability of the rotor anemometer, which failed during the demonstration program. A more positive means of mounting the direction vanes should be investigated as it was found that the sensor-mounting adapter set screws came loose from the pipe stub mast during the experiment.

In addition, it is recommended that the scope of the study be extended to verify the performance of other wind sensor modifications, models, and technologies. Based on another recent study and wind tunnel tests, the manufacturer of the mechanical wind sensor is considering a modified sensor with longer rotor ears. The purpose of this modification is to enhance the response and performance of the sensor when there is a vertical component of wind. Because of the heater requirements and new larger-ear design, it is suggested that this new sensor also be installed and evaluated to study effects of snow and icing conditions. The manufacturer of the mechanical sensors is also considering the development of a new propeller-vane type design. If a prototype is produced, it should also be procured and evaluated during the proposed study. Current discussions also suggest there is a new laser wind sensor device that Michigan Aerospace Corporation has designed for the Air Force. Since this device may have potential application to ground-based weather observing systems such as the Juneau WHIS, procurement and test of this sensor should be considered.

Because wind sensor mounting fixtures and masts can influence the buildup of ice on and around the sensors, it is recommended that modifications to the design of the masts be investigated. Currently the Juneau wind system installation uses commercial heat tape to keep the wind sensor masts ice-free. It is suggested that the reliability and feasibility of this, and alternative technologies to keep sensors ice-free, be explored in the proposed study. Finally, in light of the fact that vertical wind components are likely to be present in the mountainous terrain where the Juneau WHIS sensors are mounted, it is suggested that the proposed effort also attempt to quantify sensor response to off-axis winds.

7. ACRONYMS AND ABBREVIATIONS.

AMS	Acquisition Management System
AWR	Aviation Weather Research
FAA	Federal Aviation Administration
ft	foot
FTP	File Transfer Protocol
in	inch
IP	Internet Protocol
kHz	kilohertz
kn	knot
LST	Local Standard Time
m	meter
$m \cdot s^{-1}$	meters per second
METAR	Aviation Routine Weather Report
mm	millimeter
mph	mile per hour
MWO	Mt. Washington Observatory
NCAR	National Center for Atmospheric Research
NEMA	National Electrical Manufacturers Association
OT	Operational Test
PC	personal computer
PDT	Product Development Team
s	second
Vdc	volts direct current
W	watt
WHIS	Wind Hazard Information System

APPENDIX A

DATA LOG AND SUMMARY

APPENDIX A

DATA LOG AND SUMMARY

Date	Case	Weather	Wind Direction (deg)	Wind Speed (kt)	Temp (°C)	RH (%)
2/12	1	FZRA, FZFG, ICG	260	40	0	98
	2		220	35	7	77
	3	FZRA, FZFG, ICG	235	15	3	98
2/13	4	-SN, FZFG, ICG	270	20	-10	93
	5	FZFG, ICG	260	35	-14	89
	6	-SHSN, FZFG, ICG	270	30	-15	87
2/14	7	-SN, FZFG, ICG	300	09	-20	84
	8		340	20	-18	85
2/16	9		270	21	-6	80
2/17	10		260	16	-6	70
	11	-SN, FZFG, ICG	180	32	-8	94
2/18	12	FZFG, ICG	200	22	-7	94
	13	-SN, FZFG, ICG	260	25	-5	95
	14	FZFG, ICG	300	19	-11	91
2/19	15		300	08	-11	91
2/20	16		130	03	-11	89
	17		020	05	-8	77
	18	FZFG, ICG	360	06	-15	89
2/21	19	-SN, FZFG	340	20	-16	89
	20		340	12	-17	50
	21	FZFG, ICG	310	09	-20	82
2/22	22		320	15	-23	30
	23	DRSN	320	38	-24	47
2/23	24		320	44	-23	33
	25		340	13	-18	45
2/24	26		060	07	-17	63
	27		090	23	-15	45
2/25	28		100	22	-15	50
	29	-SN, -SHSN, ICG	060	12	-12	80
	30	-SN, BLSN, ICG	020	40	-11	90
2/26	31	-SN, BLSN, FZFG, ICG	340	45	-13	89
	32	FZFG, ICG	310	63	-14	88
2/27	33		310	53	-14	87
	34		310	12	-8	50
2/28	35		170	35	-7	92
	36	-SN, BLSN, FZFG, ICG	150	50	-9	92
3/1	37	FZRA, FZFG, GICG	150	42	-4	97
	38	-SN, FZRA, FZFG, GICG	180	12	-7	94
3/2	39	-SN, FZFG, ICG	240	22	-10	91
	40	-SN, BLSN, FZFG, ICG	270	46	-14	90
3/3	41	BLSN, FZFG, ICG	290	47	-14	88
	42		260	20	-9	93
	43	DRSN, BLSN, FZFG, ICG	180	48	-8	97

3/4	44	FZRA, FZFG, GICG	150	60	-1	99
	45	SN, FZFG, ICG	170	37	-9	95
	46	FZFG, ICG	230	18	-11	93
	47	-SN, FZFG, ICG	270	35	-15	90
3/5	48	-SN, FZFG, ICG	270	65	-20	83
	49	FZFG, ICG	290	65	-20	84
	50		290	35	-20	82
3/6	51		275	30	-20	83
	52	-SN, FZFG, ICG	230	19	-14	89
	53	-SN, FZFG, ICG	150	30	-15	88
3/7	54	-SN, FZFG, ICG	050	30	-17	87
	55	DRSN, BLSN, FZFG, ICG	310	50	-25	82
3/8	56	DRSN	320	67	-25	79
	57		320	68	-22	82
3/9	58		320	60	-20	83
	59		340	12	-15	85
3/10	60		330	13	-15	87
	61	FZFG, ICG	010	22	-10	92
3/11	62	FZFG, -SN, DRSN, FZDZ, ICG	010	22	-7	94
3/12	63	FZFG, ICG	020	38	-7	95
	64	FZFG, -SN, FZDZ, ICG	020	42	-6	96
	65	FZFG, -SN , ICG	050	30	-8	95
3/13	66	-SN, FZFG, ICG	050	15	-8	94
	67	FZFG, ICG	340	20	-8	95
3/14	68	FZFG, ICG	360	08	-10	93
	69	FZFG, ICG	190	05	-10	99
	70	-SN, FZFG, ICG	150	08	-10	97
3/15	71	-SN, FZFG, ICG	110	08	-11	92
	72	-SN, BLSN, FZFG, ICG	330	50	-12	93
3/16	73	BLSN, FZFG, ICG	320	75	-15	88
	74	DRSN, FZFG, ICG	280	72	-12	91
3/17	75	DRSN, FZFG, ICG	280	67	-9	93
	76		270	50	-5	95
3/18	77		260	40	-2	97
	78	-SN, FZFG, ICG	260	40	0	99
	79	-SN, BLSN, FZFG, ICG	270	60	-9	95
3/19	80	-SN, BLSN, FZFG, ICG	280	56	-13	93
	81	BLSN, FZFG, ICG	290	57	-13	91
	82	-SN, BLSN	300	46	-13	91
3/20	83	-SN, BLSN, FZFG, ICG	290	40	-14	89
	84	FZFG, ICG	290	37	-13	88
	85		310	08	-12	90
3/21	86		220	12	-14	89
	87	-SN, DRSN, BLSN, FZFG, ICG	170	50	-10	93

APPENDIX B

TABLES OF RESULTS AND HOURLY SUMMARIES

Mt. Washington Data

DATE = 0212

2357 120457Z 26038G48KT 0SM **FZFG** VV000 M02/M02 RMK LGT **ICG**
0048 120548Z 26041G47KT 0SM -**FZRA FZFG** VV000 M00/M00 RMK **FZRA**B35 LGT **GICG** PCPN VRY LGT
0155 120655Z 26037G41KT 0SM -RA FG VV000 00/00 RMK **FZRA**ERAB10
0254 120754Z 26032G38KT 0SM -RA FG VV000 01/01
0352 120852Z 26037KT 0SM -RA FG VV000 01/01
0453 120953Z 25035G40KT 0SM FG VV000 02/02 RMK RAE05
0553 121053Z 24032KT 35SM OVC008 03/02
0650 121150Z 24035KT 20SM -SHRA OVC008 04/03 RMK SHRAB10 HZ DSNT ALQDS
0750 121250Z 23036G44KT 30SM -SHRA OVC008 05/03 RMK PCPN VRY LGT
0853 121353Z 23037G42KT 35SM SCT015 SCT040 OVC180 05/03 RMK SHRAE1255
0953 121453Z 23036G44KT 30SM FEW050 OVC180 06/03 RMK HZ DSNT ALQDS
1053 121553Z 22030G39KT 30SM FEW001 SCT070 BKN180 05/03
1155 121655Z 21036G43KT 35SM BKN180 06/04
1250 121750Z 23039G47KT 35SM BKN180 06/03 RMK HZ DSNT ALQDS
1354 121854Z 22037G49KT 30SM SCT/// FEW001 SCT180 05/04 RMK TPS LWR SCT040 E-S
1454 121954Z 23038G49KT 1/2SM FG BKN000 BKN180 05/05 RMK FG BKN000 FG INTMT
1551 122051Z 22046G56KT 1/4SM FG SCT000 BKN180 05/05 RMK VIS 1/16V1/2 FG SCT000 FG INTMT
1656 122156Z 21048G61KT 1/4SM FG BKN000 BKN020 BKN180 02/02 RMK VIS 1/16V1/2 FG BKN000 FG INTMT
1756 122256Z 21037G46KT 0SM FG VV000 01/01
1852 122352Z 21024G43KT 150V250 0SM -RA FG VV000 01/01 RMK PRESFR RAB35
1953 130053Z 21035G48KT 150V250 0SM -RA FG VV000 02/02
2053 130153Z 21024G41KT 150V250 0SM -RA FG VV000 02/02
2158 130258Z 21016KT 0SM -**FZRA FZFG** VV000 M01/M01 RMK RAE**FZRA**B25 VRY LGT **GICG**
2259 130359Z 22014G19KT 0SM **-SN FZFG** VV000 M03/M03 RMK **FZRA**E**SNB**20 LGT **ICG**
2357 130457Z 24014KT 0SM **-SN FZFG** VV000 M06/M06 RMK LGT **ICG**
0055 130555Z 25017G23KT 0SM **FZFG** VV000 M06/M06 RMK **SNE**35 LGT **ICG**

00-01	0	74 34	276 14	24 2	268 9	23 2	000	0	8 9	1 1	0	0	0	0	0 1	99
01-02	0	24	272 11	23 2	265 15	22 2	000	0	7 9	1 1	0	0	0	0	1	98
02-03	0	23	271 19	22 2	263 15	22 2	000	0	7 9	1 1	0	0	0	0	2	98
03-04	0	23	272 14	23 2	264 22	22 2	000	0	8 10	1 1	0	0	0	0	2	98
04-05	0	21 1	271 21	23 2	264 24	23 2	000	0	7 9	1 1	0	0	0	0	3	98
05-06	0	19	269 12	20 2	262 10	20 2	000	0	6 10	1 1	0	0	0	0	2	98
06-07	0	18 1	261 13	20 2	254 11	20 2	000	0	7 12	1 1	0	0	0	0	3	96 2
07-08	0	17 1	254 18	23 3	247 18	22 3	000	0	7 13	0 1	0	0	0	0	5	87 2

Mt. Washington Data

08-09	125		16	245	25	238	25	234	24	7	0	6	2	-1	2	6	81
				15	2	22	3	4	3	17		12	1	12	1		1
09-10			16	246	26	238	26	237	24	8	0	9	2	1	2	6	76
				12	3	19	3	4	3	15		11	1	12	1		2
10-11			16	241	23	235	23	234	21	6	0	8	2	1	1	6	78
				16	3	14	3	7	4	17		13	1	14	1		4
11-12			16	235	23	226	23	226	21	9	0	9	2	0	2	6	85
				16	3	16	3	7	3	19		14	2	15	2		1
12-13	248		16	244	27	235	27	234	25	9	0	8	2	-1	2	7	77
				19	3	14	3	6	3	16		11	2	12	2		3
13-14	0		16	244	27	236	27	000	0	7	0	0	0	0	0	7	75
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14-15	0		17	241	28	233	28	000	0	8	0	0	0	0	0	7	88
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15-16	0		18	230	27	222	26	000	0	8	0	0	0	0	0	6	88
				20	3	32	3			21	1						2
16-17	210	(0.0)	19	230	28	220	28	221	26	10	0	11	4	0	3	5	88
				20	4	23	4	8	4	23	1	21	2	19	2	1	5
17-18		(0.1)	21	236	27	229	26	227	24	7	0	9	3	2	3	3	96
			1	35	4	23	4	10	4	21		16	2	18	2		2
18-19			23	219	18	213	18·	211	16	6	0	8	3	2	2	2	98
				31	5	34	4	21	5	25	1	27	2	28	2		
19-20			23	195	17	190	17	186	14	6	0	8	3	3	3	3	98
				51	3	69	3	28	4	33	1	36	2	34	2		
20-21	160	(0.1)	23	198	19	189	19	177	16	10	0	8	3	0	3	3	98
				52	4	60	4	27	4	37	1	34	2	37	2		
21-22	0		48	216	12	208	11	000	0	8	0	0	0	0	0	1	98
			33	47	4	53	4			29	1					1	1
22-23	0		58	198	14	192	14	000	0	6	0	0	0	0	0	0	99
			33	41	4	38	5			12	1					1	1
23-24	0		97	251	10	243	9	000	0	8	1	0	0	0	0	-6	97
			5	33	3	35	3			18						1	1

Mt. Washington Data

DATE = 0213

2357 130457Z 24014KT 0SM **-SN FZFG** VV000 M06/M06 RMK LGT **ICG**
0055 130555Z 25017G23KT 0SM **FZFG** VV000 M06/M06 RMK **SNE**35 LGT **ICG**
0158 130658Z 25018KT 1/16SM **-SN FZFG** VV000 M06/M06 RMK **SNB**40 **FZFG** INTMT LGT **ICG**
0352 130852Z 27018KT 0SM **FZFG** VV000 M12/M12 RMK **SNE**10 LGT **ICG**
0452 130952Z 30026KT 0SM **-SN FZFG** VV000 M13/M13 RMK **SNB**30 LGT **ICG**
0552 131052Z 30023KT 0SM **-SN FZFG** VV000 M13/M13 RMK LGT **ICG**
0650 131150Z 29037G43KT 0SM **FZFG** VV000 M14/M14 RMK **SNE**1055 LGT **ICG**
0750 131250Z 30037G46KT 0SM **FZFG** VV000 M14/M14 RMK LGT **ICG**
0850 131350Z 28037G45KT 0SM **FZFG** VV000 M15/M15 RMK LGT **ICG**
0950 131450Z 25036G42KT 0SM **FZFG** VV000 M15/M15 RMK LGT **ICG**
1053 131553Z 26037G46KT 0SM **FZFG** VV000 M15/M15 RMK LGT **ICG**
1155 131655Z 25030G36KT 0SM **FZFG** VV000 M14/M14 RMK LGT **ICG**
1248 131748Z 25034KT 0SM **FZFG** VV000 M14/M14 RMK LGT **ICG**
1353 131853Z 25030KT 0SM **-SN FZFG** VV000 M14/M14 RMK **SNB**35 LGT **ICG**
1455 131955Z 25031G39KT 0SM **FZFG** VV000 M14/M14 RMK **SNE**45 LGT **ICG**
1552 132052Z 25035KT 0SM -**SHSN FZFG** VV000 M15/M15 RMK **SHSNB**30 LGT **ICG**
1653 132153Z 25018KT 0SM -**SHSN FZFG** VV000 M15/M15 RMK LGT **ICG**
1754 132254Z 26037KT 0SM -**SHSN FZFG** VV000 M16/M16 RMK LGT **ICG**
1850 132350Z 27020KT 0SM -**SHSN FZFG** VV000 M17/M17 RMK LGT **ICG**
1951 140051Z 29035KT 0SM -**SHSN FZFG** VV000 M18/M18 RMK LGT **ICG**
2058 140158Z 29030G37KT 0SM **DRSN FZFG** VV000 M19/M19 RMK **SHSNE**15 LGT **ICG**
2153 140253Z 30020KT 0SM **DRSN FZFG** VV000 M19/M19 RMK LGT **ICG**
2254 140354Z 29011KT 0SM **FZFG** VV000 M19/M19 RMK LGT **ICG**
2355 140455Z 30008KT 1/4SM **FZFG** BKN000 M20/M20 RMK **FZFG** BKN000 **FZFG** INTMT LGT **ICG**
0051 140551Z 30011KT 3/8SM **FZFG** SCT000 M20/M20 RMK **FZFG** SCT000 **FZFG** INTMT VRY LGT **ICG**

00-01	0	98	269	11	262	10	000	0	7	1	0	0	0	0	-8	94
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01-02	0	30	275	12	267	11	000	0	7	1	0	0	0	0	-7	95
		45	34	3	35	3			11	1					2	3
02-03	0	30	280	12	274	12	000	0	6	1	0	0	0	0	-8	92
		44	31	2	22	3			8						2	1
03-04	0	94	301	16	295	16	000	0	6	1	0	0	0	0	-11	91
		16	57	3	52	3			6	1					1	1
04-05	0	87	309	19	300	19	000	0	9	0	0	0	0	0	-11	91
		25	19	2	16	2			7	1						
05-06	0	98	325	19	298	18	000	0	27	1	0	0	0	0	-12	91
			16	2	12	2			12	1						
06-07	0	99	307	28	301	28	000	0	6	1	0	0	0	0	-12	90
			45	5	8	5			35	1						1
07-08	0	98	264	30	307	30	000	0	-28	0	0	0	0	0	-13	89
			66	4	21	4			41	1						1

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08-09	0		99	343	27	296	27	000	0	48	1	0	0	0	0	-13	90
				46	2	9	2			43	1						
09-10	0		99	195	28	282	27	000	0	9	0	0	0	0	0	-13	90
				133	2	18	2			74	1						
10-11	0		99	200	27	278	27	000	0	-9	0	0	0	0	0	-13	89
				113	3	9	3			81	1						
11-12	0		98	204	23	273	23	000	0	-41	0	0	0	0	0	-13	90
				89	2	13	2			81	1						
12-13	0		99	175	23	273	23	000	0	-34	0	0	0	0	0	-13	90
				120	2	9	2			102	1						
13-14	0		99	183	20	270	20	000	0	-48	0	0	0	0	0	-12	90
				95	2	14	2			101	1						
14-15	265		99	272	23	272	22	272	21	-37	0	-17	2	1	1	-13	89
				99	3	27	2	11	2	109	1	110	1	8	1		
15-16		(0.0)	99	086	25	277	25	275	23	-22	0	-14	2	2	2	-13	89
				111	2	8	2	4	2	111	1	110	1	7	1		
16-17	295	(1.0)	99	091	26	277	26	277	24	-29	1	-9	3	1	2	-14	89
				113	4	12	4	5	4	106	1	103	1	7	1		
17-18		(1.9)	99	267	24	282	24	280	22	-33	1	-18	3	2	2	-14	88
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18-19		(20.7)	99	079	21	295	21	291	18	50	1	51	3	4	2	-15	87
				94	5	24	5	23	5	85	1	87	2	9	2		1
19-20		(6.0)	99	072	30	304	29	300	25	3	1	8	5	5	4	-17	86
				94	3	10	3	7	3	107	1	107	1	8	1		
20-21	277	(5.6)	99	182	29	309	29	303	26	-39	1	-33	5	5	4	-17	86
				107	4	12	4	8	3	105	1	104	1	8	2		
21-22	231	(0.2)	99	191	23	306	22	301	20	-40	1	-34	3	5	2	-18	85
				112	3	22	3	5	2	101	1	101	1	6	1		
22-23		(3.3)	98	158	17	303	17	300	15	-6	1	-3	2	4	2	-18	85
				110	4	17	4	14	4	97	1	97	1	8	1		
23-24			99	039	14	303	13	300	12	95	1	95	2	2	1	-19	84
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Mt. Washington Data

DATE = 0214

2355 140455Z 30008KT 1/4SM **FZFG** BKN000 M20/M20 RMK **FZFG** BKN000 **FZFG** INTMT LGT **ICG**
0051 140551Z 30011KT 3/8SM **FZFG** SCT000 M20/M20 RMK **FZFG** SCT000 **FZFG** INTMT VRY LGT **ICG**
0157 140657Z 30010KT 0SM **-SN FZFG** VV000 M20/M20 RMK **SNB**20 LGT **ICG**
0256 140756Z 30011KT 0SM **-SN FZFG** VV000 M20/M20 RMK LGT **ICG**
0349 140849Z 30010KT 0SM **-SN FZFG** VV000 M21/M21 RMK LGT **ICG** PCPN VRY LGT
0450 140950Z 30010KT 0SM **-SN FZFG** VV000 M21/M21 RMK LGT **ICG**
0551 141051Z 30009KT 1/2SM **FZFG** SCT000 M21/M21 RMK **SNE**15 **FZFG** SCT000 **FZFG** INTMT
0648 141148Z 30008KT 1/8SM **FZFG** FEW000 M22/M22 RMK VIS NE 30 **FZFG** FEW000 **FZFG** INTMT
0750 141250Z 30007KT 35SM SCT/// SKC M20/M25 RMK HZ DSNT ALQDS TPS LWR SCT050 S-NE
0855 141355Z 31005KT 35SM SCT/// SKC M21/M26 RMK HZ DSNT ALQDS TPS LWR SCT050 S-NE
*0955 141455Z 30002KT 40SM SCT/// SKC M19/M24 RMK TPS LWR SCT050 ALQDS
1052 141552Z VRB02KT 40SM SCT/// SKC M19/M24 RMK TPS LWR SCT050
1152 141652Z 34013KT 40SM SCT/// SKC M18/M22 RMK TPS LWR SCT050
1249 141749Z 35010KT 40SM SCT/// FEW180 M19/M22 RMK TPS LWR SCT050 S-N
1357 141857Z 35023G31KT 40SM SCT/// SCT180 M18/M21 RMK TPS LWR SCT050
1455 141955Z 34020KT 35SM SCT/// SCT180 M19/M23 RMK TPS LWR SCT050
1550 142050Z 35017G27KT 40SM FEW/// SCT180 M18/M22 RMK TPS LWR FEW045 S-W
1656 142156Z 2156 35026KT 40SM FEW/// SCT180 M19/M23 RMK TPS LWR FEW045 S-NW
1759 142259Z 34030G35KT 40SM FEW/// SKC M18/M23 RMK TPS LWR FEW045 S-NW
1852 142352Z 34031KT 40SM FEW/// SKC M18/M22 RMK TPS LWR FEW045
1955 150055Z 34026KT 65SM FEW/// SKC M18/M21 RMK TPS LWR FEW040
2055 150155Z 34024G31KT 65SM SKC M17/M22
2150 150250Z 34025G32KT 65SM SKC M16/M23
2251 150351Z 00028G37KT 65SM SKC M15/M24
2357 150457Z 32027G34KT 65SM SKC M17/M23
0049 150549Z 34027G34KT 65SM SKC M17/M23

00-01	99	042	14	302	13	300	11	99	1	102	2	2	1	-19	84
		53	2	11	2	14	2	27	1	20	1	6	1		
01-02	99	044	12	303	12	301	10	95	1	100	2	2	1	-19	84
		15	2	15	2	12	2	45	1	32	1	7	1		
02-03	99	072	13	307	12	304	11	67	1	73	2	3	1	-19	84
		67	2	18	2	13	2	83	1	77	1	11	1		
03-04	99	051	12	308	12	305	10	99	1	102	2	3	1	-19	84
		17	2	15	2	13	2	37	1	37	1	7	1		
04-05	99	062	12	294	11	293	10	25	1	35	2	1	1	-20	83
		78	3	34	3	26	2	114	1	106	1	7	1		
05-06	99	032	11	286	11	285	10	65	1	73	1	1	1	-20	83
		14	2	15	2	12	2	112		104	1	7	1		
06-07	98	017	10	270	9	270	9	-30	1	-32	1	0	0	-21	82
		17	2	14	2	12	2	172		173	1	8	1		
07-08	98	013	7	265	6	265	6	-67	1	-56	0	0	0	-20	83
		23	2	22	2	20	2	178	1	178	1	7	1		1

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			31	2	19	2	22	1	175		174	1	6	1		1
09-10		99	001	5	263	5	250	5	-49	1	-40	0	13	-1	-18	84
			15	2	43	2	19	2	172	1	181	1	39	1	1	1
10-11		99	006	4	299	3	281	4	19	1	42	0	16	-1	-14	88
			16	2	53	2	95	1	113	1	112	1	40	1	1	1
11-12	185	99	320	8	349	8	340	7	-26	0	-3	1	4	1	-12	89
			57	2	28	2	19	2	55		53	1	12	1		
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			59	2	24	2			76	1						
13-14	0	99	288	14	342	15	000	0	-36	-1	0	0	0	0	-15	87
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14-15	164	99	283	14	345	15	339	13	-31	-1	-55	1	6	2	-15	87
			139	2	21	3	18	2	139	1	106	1	14	1		
15-16		99	288	11	348	12	346	10	-44	0	-56	1	2	1	-15	86
			110	3	28	3	27	3	97	1	91	2	16	2		
16-17		99	284	10	002	10	004	10	-62	0	-65	0	-2	1	-17	85
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17-18		97	274	12	001	13	002	12	-47	-1	-51	0	-1	1	-18	84
		6	74	3	18	3	15	3	94	1	85	1	13	1		
18-19	206	97	286	15	003	16	004	15	-70	-1	-60	0	-3	1	-19	84
		6	32	2	18	2	7	2	55	1	86	1	10	1		
19-20	0	99	290	13	009	14	000	0	-63	-1	0	0	0	0	-18	84
			43	1	13	2			59	1						
20-21	0	97	270	16	358	17	000	0	-42	-1	0	0	0	0	-18	85
		8	94	3	18	3			119	1						
21-22	0	99	286	15	357	16	000	0	-51	-1	0	0	0	0	-17	85
			69	3	26	3			90	1						
22-23	0	99	264	15	359	16	000	0	-24	-1	0	0	0	0	-17	85
			99	3	36	4			130	1						
23-24	0	99	276	16	354	17	000	0	-35	-1	0	0	0	0	-17	84
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DATE = 0216

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2359 160459Z 26021KT 65SM SKC M06/M10
0056 160556Z 27018KT 65SM SKC M06/M10
0151 160651Z 27023KT 40SM SKC M07/M09
0257 160757Z 27020KT 40SM FEW180 M07/M10
0356 160856Z 28028KT 50SM SCT180 M07/M09
0454 160954Z 27024KT 65SM SCT180 M08/M10
0552 161052Z 27024KT 50SM SCT180 M07/M09 RMK  HZ DSNT SW
0650 161150Z 27025G30KT 35SM FEW180 M07/M09 RMK  HZ DSNT ALQDS
0750 161250Z 27023KT 30SM FEW180 M08/M09 RMK  HZ DSNT ALQDS
0853 161353Z 28019KT 25SM FEW090 FEW180 M06/M08 RMK  HZ DSNT ALQDS
0954 161454Z 27017KT 20SM BKN180 M06/M08 RMK  HZ DSNT ALQDS
1054 161554Z 27019KT 20SM FEW090 M04/M07 RMK  HZ DSNT ALQDS
1155 161655Z 27024KT 30SM FEW180 M04/M08 RMK  HZ DSNT ALQDS
1251 161751Z 25021KT 30SM FEW180 M04/M06 RMK  HZ DSNT ALQDS
1353 161853Z 25025KT 35SM BKN180 M04/M06 RMK  HZ DSNT ALQDS
1453 161953Z 25026KT 35SM OVC180 M05/M07 RMK  HZ DSNT ALQDS
1550 162050Z 25024KT 35SM FEW030 OVC160 M04/M07 RMK  HZ DSNT ALQDS
1659 162159Z 25022KT 35SM BKN030 OVC160 M07/M08 RMK  HZ DSNT ALQDS
1759 162259Z 26026KT 30SM FEW030 OVC160 M07/M08 RMK  HZ DSNT ALQDS
1959 170059Z 27017KT 30SM FEW030 BKN160 M06/M08
2059 170159Z 26017KT 30SM SCT160 M06/M08
0259 160759Z 26019KT 30SM FEW160 M06/M09
2259 170359Z 26018KT 30SM SCT160 M06/M09
2357 170457Z 26013KT 30SM SCT160 M07/M09
0051 170551Z 26012KT 30SM BKN160 M07/M09
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01-02	0	24	289 6	20 2	282 8	19 2	000	0	7 5	0 1	0	0	0	0	-7	75 1
02-03	0	24	282 11	18 2	276 18	17 2	000	0	6 6	0 1	0	0	0	0	-8	80 1
03-04	0	24	293 8	22 2	287 10	22 2	000	0	6 5	0 1	0	0	0	0	-7	80 1
04-05	0	23	292 8	21 2	285 11	20 2	000	0	6 4	0 1	0	0	0	0	-7	80 1
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06-07	0	24	302 12	22 2	296 11	21 2	000	0	6 6	0 1	0	0	0	0	-8	87 2
07-08	0	23 1	297 8	18 2	291 13	17 2	000	0	7 4	0 1	0	0	0	0	-7	87 1

Mt. Washington Data

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09-10	159	21	305	18	298	18	296	15	7	0	8	2	1	1	-5	78
			4	2	5	2	4	2	5	1	3	1	4	1		2
10-11		19	302	15	296	15	295	13	7	0	8	2	1	1	-4	73
			8	1	3	1	3	1	3	1	2	1	3	1		1
11-12		19	296	20	290	19	288	17	7	0	8	2	1	2	-3	71
			4	2	4	2	3	2	3		3	1	3	1		1
12-13		19	296	20	289	19	288	17	7	0	8	2	2	2	-2	74
			7	1	5	1	5	1	4	1	5	1	4	1		1
13-14		19	290	20	283	20	282	18	6	0	8	2	2	2	-2	76
		1	13	2	11	2	5	2	5	1	6	1	5	1		1
14-15		20	286	20	280	19	278	18	6	0	8	2	2	2	-3	76
			6	1	6	1	5	1	5	1	5	1	5	1		1
15-16		22	283	19	277	19	275	18	6	0	8	2	2	1	-4	76
			7	2	10	2	7	2	6	1	7	1	6	1		2
16-17		23	282	17	276	17	274	16	6	0	8	2	2	1	-5	81
			10	2	10	2	9	2	6	1	7	1	7	1		2
17-18		24	284	18	278	18	276	16	6	0	8	2	2	1	-6	86
			13	2	19	2	23	2	6		6	1	6	1		1
18-19		24	284	19	278	19	276	17	6	0	8	2	2	1	-6	85
			10	2	10	2	4	2	6	1	6	1	6	1		1
19-20		24	284	17	278	17	276	16	6	0	8	2	2	1	-6	81
			7	2	9	2	5	2	5		6	1	5	1		1
20-21		23	282	13	276	12	274	12	6	0	8	1	2	1	-6	80
			17	2	13	2	12	2	5		5	1	5	1		
21-22		24	285	13	279	13	277	12	6	0	8	1	2	1	-7	79
			8	1	8	1	4	1	6		6	1	6	1		1
22-23		24	284	12	278	12	277	11	6	0	8	1	2	1	-7	78
			14	2	8	2	6	2	5		7	1	6	1		1
23-24		23	275	11	270	11	268	10	5	0	7	1	2	1	-7	76
			11	2	10	2	7	2	7		7	1	7	1		1

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2357 170457Z 26013KT 30SM SCT160 M07/M09
0051 170551Z 26012KT 30SM BKN160 M07/M09
0157 170657Z 26016KT 30SM OVC160 M06/M09
0257 170757Z 26015KT 30SM OVC150 M05/M09
0357 170857Z 26012KT 30SM SCT150 M06/M09
0453 170953Z 23008KT 30SM SCT150 M06/M09
0553 171053Z 22010KT 30SM SCT150 M06/M09
0647 171147Z 21011KT 30SM SCT050 BKN150 M07/M10
0750 171250Z 18015KT 30SM FEW010 BKN050 OVC150 M07/M09
0852 171352Z 16017G24KT 30SM OVC015 M05/M08
1052 171552Z 16029G35KT 35SM SCT/// BKN015 OVC150 M07/M10
1148 171648Z 16031G37KT 35SM SCT/// OVC010 M09/M11 RMK TPS LWR SCT040 N-S
1250 171750Z 16036G46KT 35SM BKN/// OVC005 M09/M10 RMK TPS LWR BKN045
1356 171856Z 18029G35KT 0SM **-SN FZFG** VV000 M08/M08 RMK **SNB**30 LGT **ICG**
1458 171958Z 17035G44KT 1/16SM **-SN FZFG** VV000 M10/M10 RMK LGT **ICG**
1559 172059Z 17033G46KT 1/16SM **-SN FZFG** VV000 M10/M10 RMK LGT **ICG**
1654 172154Z 16030G43KT 1/16SM -SM **FZFG** VV000 M08/M08 RMK LGT **ICG**
1758 172258Z 16030G41KT 1/16SM -SM **FZFG** VV000 M08/M08 RMK LGT **ICG**
1859 172359Z 18035G46KT 1/16SM **-SN FZFG** VV000 M08/M08 RMK LGT **ICG**
1957 180057Z 17027G38KT 1/16SM **-SN FZFG** VV000 M10/M10 RMK LGT **ICG**
2054 180154Z 18037G43KT 1/16SM **-SN FZFG** VV000 M08/M08 RMK LGT **ICG**
2153 180253Z 18037G41KT 1/16SM **-SN FZFG** VV000 M08/M08 RMK LGT **ICG**
2256 180356Z 18041G49KT 1/16SM **FZFG** VV000 M08/M08 RMK **SNE**35 LGT **ICG**
2359 180459Z 18037G46KT 1/16SM **FZFG** VV000 M08/M08 RMK LGT **ICG**
0053 180553Z 18030G35KT 1/16SM **FZFG** VV000 M09/M09 RMK LGT **ICG**

00-01	23	272	8	267	8	264	7	6	0	9	1	3	0	-7	77
		21	1	18	1	14	1	7		7	1	8	1		
01-02	23	267	8	261	8	259	8	6	0	8	1	2	0	-6	75
		12	2	10	2	11	2	8		8	1	8	1		2
02-03	23	273	11	268	11	265	10	5	0	8	1	3	0	-5	70
		11	1	11	1	4	1	7		7	1	6	1		1
03-04	23	260	9	255	8	252	8	5	0	8	1	3	0	-6	70
		15	2	20	2	19	2	6		5	1	6	1		2
04-05	23	224	6	217	5	215	6	7	1	9	0	2	-1	-6	71
		18	1	17	1	17	1	7		7	1	7	1		1
05-06	23	222	6	214	6	213	6	7	1	9	0	1	-1	-6	67
		16	1	17	2	13	1	9		9	1	8	1		1
06-07	23	208	10	201	10	201	10	7	0	7	1	0	1	-6	69
		30	2	24	2	22	2	15		13	1	12	1		1
07-08	24	177	15	174	15	172	14	3	0	5	1	2	1	-6	70
		13	1	14	1	11	2	10		12	1	10	1		1

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08-09		23	182	17	178	17	176	16	5	0	7	1	2	1	-5	70
			16	1	11	1	7	2	11		11	1	10	1		1
09-10		24	173	19	170	19	166	18	3	0	7	1	4	1	-6	70
			11	3	11	3	8	3	8	1	8	1	7	1	1	2
10-11		24	170	23	167	23	164	22	3	0	6	1	3	1	-6	66
		1	9	2	7	2	5	2	8	1	8	1	7	1	1	3
11-12		25	168	25	165	24	162	23	3	0	7	1	4	1	-8	76
			7	3	7	3	4	3	8	1	7	1	7	1		4
12-13		25	168	30	165	30	161	28	3	0	7	2	4	2	-8	74
		1	8	2	11	2	4	3	9	1	8	1	8	1	1	6
13-14		95	169	24	166	24	163	23	3	0	6	1	3	1	-9	95
		13	14	3	8	3	4	3	9	1	9	1	8	1	1	2
14-15		90	170	22	166	22	162	21	4	0	8	1	4	1	-8	93
		23	13	2	11	2	8	2	11	1	11	1	10	1	1	2
15-16	(0.4)	81	164	27	161	26	157	25	3	0	7	2	4	1	-10	92
		30	12	3	10	3	7	3	12	1	11	1	9	1		1
16-17	(0.2)	98	171	27	166	26	161	25	4	0	9	1	5	1	-8	93
			14	3	10	3	6	3	12	1	12	1	8	1	1	1
17-18		98	168	26	164	25	161	24	4	0	7	1	3	1	-8	93
			19	3	12	3	7	3	11	1	11	2	9	1		2
18-19	(0.5)	98	165	25	161	24	158	23	4	0	8	2	3	1	-8	93
			26	3	11	3	7	3	12	1	11	1	9	1	1	2
19-20	(0.2)	98	163	24	157	24	154	21	6	0	8	2	2	2	-9	92
			15	3	15	3	6	3	13	1	12	1	9	1		1
20-21	(0.5)	98	184	24	162	24	159	22	22	0	26	2	3	2	-9	93
			27	5	12	5	8	5	18	1	18	1	10	2	1	1
21-22	(0.6)	98	196	30	168	30	164	28	29	0	32	2	4	1	-7	94
			22	2	9	2	7	3	21	1	22	1	9	1		1
22-23	(0.6)	98	200	31	170	30	166	29	31	0	35	2	4	2	-7	94
			30	3	11	3	6	3	29	1	29	1	10	1		1
23-24	(0.3)	98	195	28	171	28	166	27	24	0	29	2	5	2	-7	94
			39	2	12	2	4	2	38	1	38	1	10	1		

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2359 180459Z 18037G46KT 1/16SM **FZFG** VV000 M08/M08 RMK LGT **ICG**
0053 180553Z 18030G35KT 1/16SM **FZFG** VV000 M09/M09 RMK LGT **ICG**
0156 180656Z 19023KT 1/16SM **FZFG** VV000 M08/M08 RMK LGT **ICG**
0258 180758Z 19021KT 1/16SM **FZFG** VV000 M08/M08 RMK LGT **ICG**
0458 180958Z 21022KT 0SM **FZFG** VV000 M05/M05 RMK LGT **ICG**
0553 181053Z 22017KT 0SM **FZFG** VV000 M05/M05 RMK LGT **ICG**
0652 181152Z 22021KT 1/16SM **FZFG** VV000 M05/M05 RMK LGT **ICG**
0744 181244Z 22014KT 1/16SM **FZFG** VV000 M05/M05 RMK LGT **ICG**
0851 181351Z 22017KT 1/16SM **FZFG** VV000 M05/M05 RMK LGT **ICG**
0959 181459Z 23021G27KT 35SM OVC/// OVC009 M04/M07 RMK TPS LWR OVC040
1058 181558Z 26023KT 1/8SM **-SN FZFG** VV000 M06/M06 RMK **SNB**30 **FZFG** INTMT LGT **ICG**
1158 181658Z 23027KT 1/16SM **-SN FZFG** VV000 M06/M06 RMK LGT **ICG**
1258 181758Z 25024G30KT 1/16SM **-SN FZFG** VV000 M06/M06 RMK LGT **ICG**
1350 181850Z 26021KT 1/16SM **-SN FZFG** VV000 M06/M06 RMK LGT **ICG**
1451 181951Z 26024KT 0SM **-SN FZFG** VV000 M07/M07 RMK LGT **ICG**
1550 182050Z 26028KT 1/16SM **-SN FZFG** VV000 M08/M08 RMK LGT **ICG**
1659 182159Z 30021KT 50SM OVC/// OVC020 M06/M11 RMK **SNE**05 VIS N-S 1/8 TPS LWR OVC050 INTMT **FZFG**
1755 182255Z 30019KT 1/16SM **FZFG** VV000 M08/M08 RMK LGT **ICG**
1853 182353Z 30019KT 0SM **FZFG** VV000 M10/M10 RMK LGT **ICG**
1957 190057Z 30015KT 1/16SM **FZFG** VV000 M10/M10 RMK LGT **ICG**
1951 190051Z 30016KT 1/16SM **FZFG** VV000 M11/M11 RMK LGT **ICG**
2154 190254Z 30017KT 1/16SM **FZFG** VV000 M12/M12 RMK LGT **ICG**
2255 190355Z 30021KT 1/16SM **FZFG** VV000 M12/M12 RMK LGT **ICG**
2354 190454Z 30020KT 30SM BKN/// SCT010 M08/M15 RMK TPS LWR BKN050 INTMT **FZFG** AURBO
0053 190553Z 30018KT 20SM BKN/// SCT010 M08/M16 RMK TPS LWR BKN050

00-01	(3.1)	98	189	24	170	24	165	23	19	0	24	2	5	2	-7	94
			62	3	15	2	5	3	35	1	33	1	11	1		
01-02		98	193	21	170	21	165	20	23	1	27	2	4	1	-7	94
				2	14	2	3	2	12	1	3	1	13	1		
02-03	(0.0)	98	193	18	169	17	165	15	24	1	28	2	5	1	-7	94
				2	21	2	7	2	16	1	7	1	15	1		1
03-04	(0.5)	98	193	16	173	15	168	15	20	2	25	2	5	0	-6	95
				4	26	4	16	4	26	1	15	2	21	2		1
04-05		98	193	12	213	11	211	10	-21	1	-19	2	1	1	-4	96
				2	46	3	27	3	45	1	27	2	35	2		
05-06		98	193	13	235	14	233	12	-43	0	-40	1	2	1	-4	96
				1	18	1	7	2	15		5	1	14	1		
06-07		98	193	14	235	14	233	13	-42	0	-40	1	2	1	-4	96
				2	15	2	6	2	14		5	1	14	1		
07-08		98	193	14	239	15	237	13	-46	0	-44	1	2	1	-4	96
				1	14	1	5	2	14		4	1	13	1		

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08-09		98	193	13	244	14	240	12	-51	0	-48	1	3	1	-4	97
				1	20	2	8	2	14		8	1	12	1		
09-10		98	193	14	255	15	251	13	-62	0	-59	1	3	2	-4	96
				2	12	2	13	2	12		6	1	11	1		
10-11		98	193	16	264	17	262	15	-71	-1	-69	1	1	2	-4	96
				2	14	2	16	2	12	1	7	1	10	1		
11-12		98	193	14	258	15	255	13	-65	0	-62	1	3	2	-5	96
				1	15	1	5	1	11		4	1	11	1		
12-13		98	193	16	262	17	259	14	-69	-1	-66	1	3	2	-4	96
				2	12	2	8	2	12	1	6	1	11	1		
13-14		98	193	17	273	18	274	16	-80	-1	-81	1	-1	2	-5	96
				2	25	2	8	2	10	1	7	1	8	1		
14-15		98	193	19	281	20	283	18	-89	-1	-90	2	-2	2	-5	95
				1	5	1	4	1	5	1	4	1	4	1		
15-16		98	193	22	285	22	287	20	-92	-1	-94	2	-2	3	-6	94
				2	8	2	15	2	6	1	5	1	5	1		
16-17		98	193	22	289	22	291	19	-96	0	-99	2	-2	3	-7	94
				2	5	2	5	2	5	1	4	1	4	1		
17-18		98	193	15	294	15	296	13	-101	0	-103	2	-2	1	-7	94
				3	9	3	8	2	9	1	7	1	5	1		
18-19		98	193	18	302	18	303	16	-108	0	-110	2	-1	2	-8	93
				2	23	2	15	2	20	1	9	1	7	1		
19-20		98	193	16	290	16	291	14	-97	0	-98	2	-2	2	-9	93
				3	22	3	20	3	9	1	7	1	5	1		
20-21		98	193	17	278	17	279	14	-86	-1	-86	2	0	3	-10	92
				2	7	2	6	2	6	1	5	1	5	1		
21-22	(27.8)	98	193	18	278	18	277	15	-85	0	-84	3	1	3	-10	92
				2	7	2	5	2	7		5	1	6	1		
22-23	(36.5)	98	193	18	277	18	277	14	-84	0	-84	4	0	4	-11	91
				2	7	2	8	1	6		4	1	5	1		
23-24	(7.6)	98	193	19	280	18	276	14	-87	0	-83	4	3	4	-11	91
				2	8	2	7	2	8		5	1	6	1		

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2354 190454Z 30020KT 30SM BKN/// SCT010 M08/M15 RMK  TPS LWR BKN050 INTMT FZFG AURBO
0053 190553Z 30018KT 20SM BKN/// SCT010 M08/M16 RMK  TPS LWR BKN050
0153 190653Z 33008KT 20SM BKN/// FEW010 OVC120 M08/M14 RMK  TPS LWR BKN050
0256 190756Z 33009KT 20SM BKN/// FEW010 BKN120 M06/M15 RMK  TPS LWR BKN050
0359 190859Z 31010KT 20SM BKN/// FEW010 BKN120 M08/M14 RMK  TPS LWR BKN050
0455 190955Z 31008KT 20SM SCT/// FEW010 BKN120 M07/M14 RMK  TPS LWR BKN050
0558 191058Z 31004KT 30SM SCT/// FEW010 BKN120 M07/M14 RMK  TPS LWR SCT045
0654 191154Z 31006KT 30SM FEW/// SCT030 BKN120 M07/M14 RMK  TPS LWR FEW030
0750 191250Z 30006KT 30SM SCT060 BKN120 M07/M13
0852 191352Z 31003KT 30SM FEW/// SCT030 BKN100 M06/M13 RMK  TPS LWR FEW040
0956 191456Z 31005KT 30SM SCT/// SCT040 SCT100 M06/M13 RMK  TPS LWR SCT040
1158 191658Z 27004KT 40SM BKN/// FEW040 FEW100 M07/M12 RMK  TPS LWR BKN040
1254 191754Z 27007KT 40SM BKN/// FEW100 M08/M13 RMK  TPS LWR BKN045
1346 191846Z 26005KT 40SM BKN/// FEW120 M07/M13 RMK  TPS LWR BKN050
1455 191955Z 26008KT 40SM BKN/// FEW100 M07/M13 RMK  TPS LWR BKN045 DSNT HZ SE-NW
1556 192056Z 27006KT 40SM BKN/// FEW100 M08/M13 RMK  TPS LWR BKN055
1650 192150Z 26008KT 30SM BKN/// FEW020 FEW060 M08/M13 RMK  TPS LWR BKN055
1754 192254Z 30010KT 30SM SCT/// FEW030 FEW100 M08/M13 RMK  TPS LWR SCT050
1850 192350Z 30009KT 30SM FEW/// FEW030 M09/M13 RMK  TPS LWR FEW045
1952 200052Z 30004KT 40SM FEW/// FEW030 M08/M16 RMK  TPS LWR FEW040
2056 200156Z 30003KT 40SM FEW/// SKC M08/M16 RMK  TPS LWR FEW040
2156 200256Z 30004KT 40SM FEW/// SKC M07/M14 RMK  TPS LWR FEW040
2254 200354Z 30004KT 40SM FEW/// SKC M06/M19 RMK  TPS LWR FEW040
2353 200453Z 30004KT 40SM FEW/// SKC M05/M20 RMK  TPS LWR FEW040
0055 200555Z 30005KT 40SM FEW/// SKC M07/M17 RMK  TPS LWR FEW040
2051 200151Z 12002KT 40SM FEW/// FEW010 M07/M17 RMK  TPS LWR FEW040
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00-01	98	193	17	286	17	282	14	-93	0	-89	3	4	3	-11	91
			2	6	2	3	1	5	1	2	1	5	1		
01-02	98	193	10	302	10	300	8	-106	0	-107	1	2	1	-11	91
			3	31	4	30	3	37		22	1	6	1		
02-03	98	193	6	301	5	293	5	-107	0	-99	0	8	0	-10	91
			2	46	3	43	2	28	1	28	1	22	1		
03-04	98	193	7	278	7	277	7	-85	0	-84	0	1	0	-11	91
			2	29	2	32	2	19		20	1	5	1		
04-05	98	197	4	283	4	257	5	-86	1	-60	0	26	-1	-11	91
		25	2	42	3	32	2	37	1	49	1	49	1		
05-06	98	219	3	309	2	266	3	-90	1	-46	0	43	-1	-11	91
		62	2	33	2	62	2	50		83	1	58	1		
06-07	98	217	2	319	1	267	2	-102	1	-50	-1	52	-2	-11	91
		60	1	40	1	101	1	53	1	74	1	54	1		
07-08	98	214	2	323	1	275	2	-108	1	-61	-1	48	-2	-10	92
		56	1	61	1	53	1	60	1	83	1	55	1	1	1

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08-09	98	193	4	189	4	183	4	4	0	10	0	6	0	-8	93
			1	19	1	21	1	16		17		6	1	1	1
09-10	83	196	2	262	1	211	3	-66	1	-15	-1	51	-2	-6	95
	34	21	1	116	1	58	1	73	1	41	1	55	1	1	1
10-11	5	193	3	242	2	237	4	-49	1	-44	0	5	-1	-3	97
	7		1	17	1	16	1	14		12		12	1		
11-12	16	193	4	246	4	242	5	-53	1	-49	0	4	-1	-3	97
	11		1	13	1	10		10		9	1	3	1		
12-13	20	193	6	260	5	257	5	-67	0	-64	0	3	0	-4	96
	1		1	10	1	12	1	7		8		3			
13-14	18	193	5	259	5	256	5	-67	0	-63	0	3	0	-4	95
	1		1	7	1	7		7		7		2			
14-15	18	193	7	266	6	264	6	-73	0	-71	0	2	0	-5	95
	1		1	10	1	11	1	6		7		2			
15-16	20	193	6	266	5	264	5	-73	1	-71	0	2	0	-6	95
	1		1	8	1	9	1	7		8		2			
16-17	23	193	7	273	7	272	7	-80	0	-80	0	0	0	-7	93
	1		1	12	1	12	1	4		5		2		1	
17-18	24	193	10	287	10	288	9	-95	0	-95	1	0	1	-10	91
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18-19	25	193	9	298	8	298	8	-105	0	-105	1	0	1	-11	91
			1	7	1	6	1	7		6	1	4	1		
19-20	25	251	2	323	1	255	2	-72	1	6	0	68	-1	-11	91
		94	2	42	2	94	1	63	1	109	1	96	1		
20-21	25	294	1	322	0	103	1	-28	0	73	-1	44	-1	-11	91
		123	1	69	1	83	1	71		113	1	124	1		
21-22	25	251	1	345	0	040	2	-74	1	32	-1	34	-2	-11	90
		118	1	7		105	1	95	1	132	1	75	1		
22-23	24	301	0	345	0	109	1	-26	0	114	-1	94	-1	-12	90
		128	1	5	1	131	1	80		119		122	1		
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Mt. Washington Data

DATE = 0220

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0055 200555Z 30005KT 40SM FEW/// SKC M07/M17 RMK  TPS LWR FEW040
0359 200859Z 12004KT 40SM SCT/// FEW010 M06/M20 RMK  TPS LWR SCT040
0455 200955Z 13002KT 40SM SCT/// SCT010 M06/M20 RMK  TPS LWR SCT040
0558 201058Z 13002KT 45SM BKN/// BKN020 M05/M19 RMK  TPS LWR BKN040
0654 201154Z 13004KT 40SM SCT/// BKN020 M06/M19 RMK  TPS LWR BKN040
0746 201246Z 13002KT 40SM BKN/// BKN020 M06/M20 RMK  TPS LWR BKN040
0857 201357Z 02002KT 40SM BKN/// BKN040 M09/M15 RMK  TPS LWR BKN040
0959 201459Z 02001KT 55SM BKN/// BKN080 M08/M16 RMK  TPS LWR BKN040
1058 201558Z 02002KT 55SM BKN/// BKN080 M08/M15 RMK  TPS LWR BKN040 HZ DSNT N-S
1153 201653Z 02002KT 55SM BKN/// BKN090 M08/M14 RMK  TPS LWR BKN040 HZ DSNT N-S
1252 201752Z 02008KT 50SM BKN/// SCT070 BKN100 M09/M14 RMK  TPS LWR BKN040 HZ DSNT ALQDS
1355 201855Z 02006KT 50SM BKN/// BKN100 M09/M13 RMK  TPS LWR BKN050 HZ DSNT ALQDS
1459 201959Z 02005KT 50SM BKN/// SCT080 M11/M13 RMK  TPS LWR BKN050 HZ DSNT ALQDS
1559 202059Z 02005KT 50SM BKN/// SCT120 M11/M13 RMK  TPS LWR BKN050 HZ DSNT ALQDS
1659 202159Z 02004KT 50SM BKN/// FEW080 SCT120 M12/M13 RMK  TPS LWR BKN055 HZ DSNT NW-S
1758 202258Z 02004KT 50SM BKN/// FEW040 SCT080 M13/M15 RMK  TPS LWR 055
1857 202357Z 02002KT 50SM BKN/// SCT040 M11/M14 RMK  TPS LWR BKN055
1954 210054Z 34003KT 50SM SCT/// SCT030 M11/M13 RMK  TPS LWR SCT055
2057 210157Z 35007KT 1/8SM FZFG SCT000 M14/M14 RMK  FZFG SCT000
2155 210255Z 36005KT 1/16SM VV000 M16/M16 RMK  LGT ICG
2252 210352Z 36005KT 1/16SM FZFG VV000 M17/M17 RMK  LGT ICG
2358 210458Z 36007KT 1/16SM -SN FZFG VV000 M17/M17 RMK  SNB35 LGT ICG
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02-03	24	193	4	143	4	144	5	50	0	49	-1	-1	-1	-11	89
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		77		21		58	1	67		93	1	59	1		1
07-08	23	343	0	343	0	221	1	0	0	90	-1	90	-1	-10	90
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Mt. Washington Data

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	1	147		8	1	6	1	43	1	43	1	5	1		3
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	1	61	3	27	1	25	1	155	3	154	3	4	1	1	7
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Mt. Washington Data

DATE = 0221

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0357 210857Z 34021KT 1/16SM -SN FZFG VV000 M17/M17 RMK  LGT ICG
0456 210956Z 34014KT 30SM FEW/// SCT010 M17/M20 RMK  SNE25 TPS LWR FEW050
0552 211052Z 34008KT 70SM FEW/// SCT020 M17/M22 RMK  TPS LWR FEW050
0652 211152Z 34008KT 65SM FEW/// SCT020 M17/M19 RMK  TPS LWR FEW050
0748 211248Z 34011KT 65SM FEW/// FEW020 M17/M20 RMK  TPS LWR FEW050
0859 211359Z 34010KT 65SM SCT/// FEW040 M18/M22 RMK  TPS LWR SCT050 HZ DSNT ALQDS
0953 211453Z 34014KT 65SM SCT/// FEW060 M18/M23 RMK  TPS LWR SCT050 HZ DSNT ALQDS
1051 211551Z 34013KT 65SM SCT/// FEW009 FEW060 M18/M23 RMK  TPS LWR SCT050 HZ DSNT ALQDS
1153 211653Z 34008KT 60SM SCT/// SCT060 M17/M22 RMK  TPS LWR SCT055
1251 211751Z 34004KT 1/8SM FZFG BKN000 M18/M18 RMK  FZFG BKN000 LGT ICG
1353 211853Z 31009KT 1/8SM FZFG BKN000 M18/M18 RMK  FZFG BKN000 FZFG INTMT LGT ICG
1452 211952Z 31009KT 1/4SM FZFG BKN000 M17/M17 RMK  FZFG BKN000 FZFG INTMT LGT ICG
1555 212055Z 31006KT 1/8SM FZFG BKN000 M18/M18 RMK  FZFG BKN000 FZFG INTMT LGT ICG
1652 212152Z 31008KT 1/8SM FZFG BKN000 M19/M19 RMK  FZFG BKN000 FZFG INTMT LGT ICG
1750 212250Z 31005KT 1/16SM FZFG SCT000 M20/M20 RMK  FZFG SCT000 FZFG INTMT LGT ICG
1850 212350Z 31012KT 1/16SM FZFG VV000 M22/M22 RMK  FZFG INTMT LGT ICG
1951 220051Z 31008KT 1/16SM FZFG BKN000 M22/M22 RMK  FZFG BKN000 FZFG INTMT LGT ICG
2053 220153Z 31008KT 1/8SM FZFG VV000 M22/M22 RMK  FZFG INTMT LGT ICG
2151 220251Z 31009KT 65SM FEW010 M21/M23
2251 220351Z 31012KT 65SM SKC M22/M29
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0054 220554Z 31009KT 65SM SKC M23/M23
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	2	71	7	14	2	8	2	75	5	63	6	10	1		
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	2		2	21	2	10	2	35	1	8	1	7	1		
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	2		2	54	2	42	2	40	1	17	1	9	1		1
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Mt. Washington Data

DATE = 0222

2352 220452Z 31010KT 65SM SKC M23/M32
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0156 220656Z 34006KT 65SM SKC M22/M31
0254 220754Z 31015KT 65SM SKC M22/M32
0355 220855Z 32018KT 65SM SKC M23/M33
0458 220958Z 32018G31KT 65SM SKC M22/M31
0553 221053Z 32017G26KT 65SM SKC M22/M32
0652 221152Z 32024G36KT 75SM FEW/// SKC M34/M34 RMK TPS LWR FEW030
0747 221247Z 33030G41KT 75SM FEW/// SKC M25/M33 RMK TPS LWR FEW030
0855 221355Z 34025G36KT 75SM SKC M25/M33
0955 221455Z 33027G42KT 75SM SKC M24/
1059 221559Z 33026G38KT 75SM SKC M25/
1155 221655Z 33028G37KT 75SM SKC M25/M30
1250 221750Z 33035G44KT 80SM **DRSN** SKC M25/M31 RMK HZ DSNT ALQDS
1359 221859Z 32030G43KT 80SM **DRSN** SKC M25/M30 RMK HZ DSNT ALQDS
1455 221955Z 31038G49KT 80SM **DRSN** SKC M25/M34 RMK HZ DSNT ALQDS
1558 222058Z 31038G49KT 70SM **DRSN** SKC M24/M29 RMK HZ DSNT ALQDS
1658 222158Z 31044G56KT 70SM **DRSN** SKC M25/ RMK HZ DSNT ALQDS
1759 222259Z 32037G49KT 65SM **DRSN** SKC M24/M34 RMK HZ DSNT ALQDS
1857 222357Z 32038G45KT 65SM **DRSN** SKC M25/M40
1955 230055Z 33027G36KT 65SM SKC M26/M30
2055 230155Z 33027G39KT 65SM SKC M26/M30
2153 230253Z 33023G32KT 65SM SKC M25/M33
2255 230355Z 33027G37KT 65SM SKC M23/M31
2359 230459Z 33030G44KT 65SM SKC M23/M33
0055 230555Z 33037G47KT 65SM SKC M22/M31

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		82	6	74	5	76	4	101	2	101	3	15	1		5
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Mt. Washington Data

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10-11			28	348 19	17 4	343 23	18 4	339 17	16 4	6 19	-1 1	9 16	1 2	3 17	2 2	-23	33 1
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12-13		(0.0)	28	347 19	25 4	340 23	25 4	336 8	23 4	7 19	0 1	11 17	2 2	4 14	3 2	-23	41 2
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Mt. Washington Data

DATE = 0223

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1156 231656Z 34017KT 80SM FEW040 M21/M34
1258 231758Z 31015KT 80SM FEW100 M21/M33
1353 231853Z 32017KT 80SM FEW100 M20/M32
1659 232159Z 33019KT 70SM FEW100 M19/M40
1750 232250Z 33011G23KT 70SM SCT100 M20/M35
1857 232357Z 34012KT 65SM FEW100 M19/M31
1954 240054Z 34011KT 65SM FEW120 M18/M25
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				15	4	13	4	10	4	12	2	11	2	10	2		3
04-05		(0.2)	29	319	37	312	37	311	33	7	0	7	4	1	5	-23	32
				16	4	12	4	8	4	11	1	11	2	9	2		3
05-06			29	315	32	309	34	307	30	6	-2	8	2	1	4	-22	27
				30	6	25	3	14	4	10	5	10	5	9	2		2
06-07			29	316	30	310	31	309	27	6	-1	7	3	1	4	-22	25
				14	5	14	4	11	4	9	3	9	3	10	2		1
07-08	230		28	323	11	309	26	308	23	13	-14	15	-11	1	3	-21	22
				19	11	13	4	12	4	16	9	14	10	10	1		1
08-09	217		26	342	0	326	19	324	16	17	-19	18	-16	1	3	-20	20
			3	30	1	32	3	23	3	15	3	10	3	11	2		1

Mt. Washington Data

09-10		12	339	3	316	20	313	13	23	-18	26	-10	2	8	-19	18
			16	6	33	5	28	4	24	7	25	6	13	2		1
10-11	18	25	325	0	317	15	315	14	8	-15	9	-14	1	2	-18	20
						2		2	5	2	4	2	5	1		
11-12		25	334	0	325	15	323	14	9	-15	11	-14	2	1	-18	22
			17		12	2	9	2	11	2	11	2	7	1		1
12-13		24	338	0	331	15	328	13	7	-15	10	-13	3	2	-18	24
			32	1	10	2	9	2	10	2	9	2	7	1		2
13-14		24	338	0	329	14	327	12	9	-13	11	-12	2	1	-18	29
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14-15		24	334	0	326	12	324	11	7	-12	10	-11	2	1	-17	27
			13		11	1	11	1	9	1	9	1	7	1		2
15-16		24	331	0	323	10	321	9	7	-10	9	-9	2	1	-17	23
			22		21	2	22	2	12	2	12	2	11	1		2
16-17		24	287	5	300	13	326	12	8	-8	12	-7	3	1	-17	17
			135	6	132	4	129	4	16	7	19	7	14	1		1
17-18		26	338	0	330	13	326	11	7	-13	11	-11	4	1	-19	19
			20		19	4	19	3	18	4	13	3	14	1		2
18-19		26	018	0	011	7	015	7	6	-7	3	-7	-3	0	-19	25
			48		37	2	19	2	13	2	11	2	12	1		3
19-20		26	022	0	015	7	021	7	7	-7	1	-7	-5	0	-18	43
			15		18	2	14	2	10	2	8	2	10	1		6
20-21		26	025	0	018	7	022	8	7	-7	2	-8	-4	0	-18	48
			9		10	1	9	1	10	1	7	1	8	1		4
21-22		26	036	0	029	5	034	6	7	-5	2	-6	-5	-1	-18	52
			21		25	2	18	2	10	2	7	2	9	1		1
22-23		26	091	0	082	10	087	9	9	-10	4	-9	-5	0	-18	50
			28		18	1	32	1	5	1	9	1	10	1		2
23-24		26	105	0	095	11	100	10	10	-11	5	-10	-4	1	-18	44
			15		14	1	15	1	4	1	3	1	4	1		6

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DATE = 0224

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2357 240457Z 06009KT 65SM SCT180 M17/M24
0055 240555Z 06012KT 65SM SCT180 M17/M26
0154 240654Z 06010KT 65SM SCT180 M17/M13
0254 240754Z 06008KT 65SM SCT180 M17/M23
0356 240856Z 06007KT 65SM SCT180 M17/M20
0458 240958Z 06006KT 65SM SCT180 M16/M22
0556 241056Z 06007KT 65SM SCT180 M15/M21
0650 241150Z 06007KT 65SM BKN160 M20/M29
0745 241245Z 06008KT 65SM BKN160 M14/M25
0851 241351Z 06008KT 65SM BKN160 M15/M23
0955 241455Z 06007KT 70SM BKN160 M15/M21
1159 241659Z 07003KT 75SM BKN180 M14/M20
1252 241752Z 06005KT 90SM BKN180 M14/M21
1357 241857Z 07004KT 95SM BKN180 M14/M22
1452 241952Z 07004KT 90SM BKN180 M14/M22
1548 242048Z 06009KT 90SM SCT180 M14/M24
1648 242148Z 06012KT 90SM SCT180 M14/M25
1752 242252Z 06013KT 90SM FEW180 M14/M24
1850 242350Z 07014KT 90SM FEW180 M14/M24
1959 250059Z 11016KT 65SM FEW180 M16/M23
2058 250158Z 11030KT 65SM OVC180 M16/M22
2153 250253Z 11024KT 65SM OVC180 M13/M30
2251 250351Z 10019KT 65SM OVC180 M14/M28
2356 250456Z 10026KT 65SM OVC180 M16/M23
0056 250556Z 09026KT 65SM FEW060 OVC180 M16/M22
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00-01	26	122	0	114	13	116	12	8	-13	5	-12	-3	1	-17	50
		9		10	1	8	1	5	1	5	1	6	1		2
01-02	26	124	0	116	13	118	12	8	-13	6	-12	-2	1	-17	54
		9		12	1	10	1	5	1	4	1	5	1		2
02-03	26	127	0	121	11	122	11	6	-11	5	-11	-1	0	-17	62
		7		9	2	7	1	4	2	5	1	5	1		1
03-04	26	129	0	123	9	123	9	6	-9	5	-9	-1	0	-17	65
		9		8	1	7	1	4	1	4	1	4	1		1
04-05	26	131	0	125	7	126	7	6	-7	5	-7	-1	0	-17	65
		7		6	2	7	1	3	2	3	1	3			1
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		9		13		13		3		2		2			1
06-07	25	137	0	131	6	131	6	7	-6	6	-6	0	0	-17	61
		5		7	1	5	1	2	1	4	1	4			1
07-08	24	135	0	129	7	129	7	6	-7	5	-7	-1	0	-15	37
	1	7		7	1	6	1	3	1	3	1	3	1	1	13

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08-09	24	132	0	127	9	128	8	5	-9	5	-8	-1	0	-14	44
		13		10	1	11	1	3	1	3	1	3			10
09-10	24	131	0	125	10	126	9	6	-10	5	-9	-1	0	-13	48
		7		8	1	7	1	4	1	3	1	3	1		7
10-11	24	130	0	124	12	125	11	6	-12	5	-11	-1	1	-13	54
		8		10	1	6	1	5	1	5	2	5	1		1
11-12	24	133	0	127	11	127	10	5	-11	5	-10	0	1	-13	53
		11		7	1	6	1	6	1	5	1	4	1		1
12-13	23	132	0	126	9	127	8	5	-9	5	-8	0	0	-12	50
		8		8	1	7	1	6	1	4	1	4	1		2
13-14	23	135	0	129	8	129	7	6	-8	6	-7	0	0	-12	46
		11		8	1	5	1	7	1	5	1	5	1		2
14-15	23	146	0	140	7	139	7	6	-7	7	-7	1	0	-11	39
		11		11	1	8	1	8	1	7	1	7	1		3
15-16	24	132	0	125	9	126	9	7	-9	6	-9	-1	0	-11	37
		16		23	3	18	3	8	3	6	3	6	1		2
16-17	24	131	0	124	14	125	13	7	-14	6	-13	-1	1	-13	40
		14		12	2	9	2	7	2	6	2	7	1		1
17-18	24	139	1	133	15	131	14	6	-14	8	-14	2	1	-14	42
		16	3	13	2	5	2	19	4	15	4	12	1		1
18-19	24	136	0	129	16	129	15	6	-16	7	-15	0	1	-14	43
		9		11	1	4	1	8	1	7	1	5	1		2
19-20	24	136	0	131	18	129	17	5	-18	7	-17	2	1	-15	45
		7		10	1	4	2	8	1	6	2	6	1		4
20-21	25	144	1	138	22	135	21	6	-21	8	-20	3	1	-16	58
		9	3	9	3	4	3	11	5	9	5	9	1		3
21-22	25	149	0	143	21	140	20	6	-21	9	-20	3	1	-15	48
		9		9	2	6	2	12	2	9	2	9	1	1	5
22-23	24	149	0	142	19	140	18	7	-19	9	-18	3	1	-14	31
		13		20	1	3	2	12	1	9	2	9	1		4
23-24	24	143	7	137	20	134	19	6	-13	9	-12	2	1	-15	44
		15	8	11	3	10	3	11	5	9	6	8	1		3

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DATE = 0225

2356 250456Z 10026KT 65SM OVC180 M16/M23
0056 250556Z 09026KT 65SM FEW060 OVC180 M16/M22
0159 250659Z 10027KT 65SM BKN180 M15/M23
0253 250753Z 10025KT 65SM SCT060 OVC180 M15/M23
0357 250857Z 10019KT 65SM OVC060 M16/M22
0456 250956Z 10014KT 65SM OVC050 M15/M23
0554 251054Z 10016KT 65SM FEW030 OVC050 M14/M22
0656 251156Z 10010KT 2SM **-SN** FZBR VV002 M15/M15 RMK **SNB**45 VRY LGT **ICG**
0752 251252Z 05010KT 4SM -**SHSN** BR VV002 M14/M14 RMK **SNE**20**SHSNB**40 PCPN VRY LGT LGT **ICG**
0855 251355Z 08009KT 4SM -**SHSN** BR VV002 M14/M16 RMK BR INTMT VRY LGT **ICG**
0951 251451Z 06010KT 1SM -**SHSN** BR VV002 M13/M17 RMK VRY LGT **ICG**
1054 251554Z 06010KT 2SM **-SN** BR VV002 M13/M15 RMK **SHSNESNB**15 VRY LGT **ICG**
1158 251658Z 06010KT 3/4SM **-SN** BR VV001 M12/M16 RMK VRY LGT **ICG**
*1253 251753Z 03012KT 3/4SM **-SN** BR VV001 M12/M14 RMK VRY LGT **ICG**
1354 251854Z 05026G35KT 20SM **DRSN** OVC004 M10/M18 RMK VIS 1 S-W **SNE**10 BBLO S-W
1453 251953Z 06030G37KT 15SM **DRSN** OVC005 M12/M21 RMK VIS 3 SW-N BBLO SW-N
1552 252052Z 07027G35KT 20SM **DRSN** OVC005 M13/M21 RMK VIS 2 S-W BBLO S-W
1652 252152Z 06033G39KT 3/4SM **-SN** BR VV001 M13/M13 RMK VIS 1 N **SNB**20 VRY LGT **ICG**
1750 252250Z 05037G43KT 1/16SM **-SN BLSN FZFG** VV001 M13/M13 RMK LGT **ICG**
1850 252350Z 05037G42KT 1/16SM **-SN BLSN FZFG** VV000 M13/M13 RMK LGT **ICG**
1956 260056Z 02042KT 1/16SM **-SN BLSN FZFG** VV000 M12/M12 RMK LGT **ICG**
2053 260153Z 03046G53KT 1/16SM **BLSN FZFG** VV000 M12/M12 RMK **SNE**30 MOON DMLY VSBL LGT **ICG**
2159 260259Z 02038G45KT 1/16SM **BLSN FZFG** VV000 M12/M12 RMK MOON DMLY VSBL LGT **ICG**
2256 260356Z 02047KT 1/16SM **BLSN FZFG** VV000 M11/M11 RMK MOON DMLY VSBL LGT **ICG**
2356 260456Z 02041KT 1/16SM **-SN BLSN FZFG** VV000 M12/M12 RMK **SNB**40 LGT **ICG**
1955 260055Z 02046G52 1/16SM **-SN BLSN FZFG** VV000 M11/M11 RMK LGT **ICG**
0055 260555Z 02046G52 1/16SM **-SN BLSN FZFG** VV000 M11/M11 RMK LGT **ICG**

00-01	25	140	5	134	23	132	21	6	-18	8	-16	2	2	-16	57
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01-02	24	136	0	130	22	129	20	6	-22	7	-20	1	2	-15	46
		12	2	17	2	7	2	11	2	9	2	9	1	1	7
02-03	24	137	1	131	21	130	20	6	-21	7	-19	1	2	-15	46
		13	2	10	3	5	3	12	3	10	3	8	1		6
03-04	25	140	1	136	21	133	20	5	-20	8	-19	3	1	-16	59
		12	2	10	3	10	2	10	2	8	2	8	1		3
04-05	25	142	0	136	19	134	18	6	-19	8	-18	2	1	-16	59
		9		13	2	6	2	8	2	6	2	7	1		2
05-06	24	142	0	136	18	134	17	6	-18	8	-17	2	1	-15	49
		8		8	2	8	2	8	2	9	2	8	1		2
06-07	24	134	0	129	17	128	16	6	-17	6	-16	1	1	-14	49
		9		11	2	8	2	7	2	7	2	6	1		5
07-08	24	134	0	128	13	128	12	6	-13	6	-12	0	1	-14	62

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			8		8	2	6	2	5	2	5	2	5	1		8
08-09		24	134	0	128	12	128	11	6	-12	5	-11	0	1	-13	43
			8		9	2	5	2	7	2	7	2	6	1		3
09-10		24	130	0	123	15	125	14	7	-15	5	-14	-1	1	-13	61
			9		10	2	9	2	6	2	6	2	7	1		8
10-11		24	125	0	118	16	120	15	8	-16	6	-15	-2	1	-13	81
			27		26	2	37	2	7	2	6	2	6	1		5
11-12		24	127	0	120	17	121	16	7	-17	6	-16	-1	1	-12	83
			19		18	3	13	3	7	3	6	3	7	1		8
12-13		24	111	0	103	15	107	14	9	-15	4	-14	-5	1	-12	86
			15		14	3	13	3	7	3	7	3	8	1		5
13-14		24	089	1	082	16	087	15	7	-16	2	-14	-5	1	-11	77
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14-15		24	094	2	087	23	093	21	7	-21	1	-19	-7	2	-12	60
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15-16		24	095	4	087	26	095	24	8	-22	0	-20	-8	2	-12	55
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16-17		24	081	2	076	22	080	21	5	-20	1	-19	-4	2	-12	80
			19	3	18	2	22	2	8	3	7	3	6	1		12
17-18		71	072	10	066	26	069	25	6	-16	4	-15	-2	1	-12	90
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18-19		98	068	12	061	23	065	21	7	-10	3	-9	-4	1	-12	90
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19-20		98	056	14	051	23	055	21	6	-9	1	-8	-4	1	-11	90
			8	2	7	1	4	2	11	1	8	1	7	1		
20-21	(0.1)	98	056	19	051	24	055	23	6	-5	1	-3	-4	2	-11	90
			11	3	10	2	5	2	12	1	10	2	9	1		
21-22		98	052	14	047	21	051	20	5	-7	1	-6	-4	1	-11	90
			20	8	20	3	14	3	13	7	10	7	9	1		
22-23	(0.3)	98	053	14	047	23	051	22	6	-9	1	-8	-4	1	-11	91
			12	9	12	2	5	2	14	8	11	8	9	1		1
23-24	(0.2)	98	047	15	040	21	045	21	7	-6	3	-6	-4	0	-11	91
			20	4	11	2	6	2	15	3	12	4	9	1		1

Mt. Washington Data

DATE = 0226

2356 260456Z 02041KT 1/16SM **-SN BLSN FZFG** VV000 M12/M12 RMK **SNB**40 LGT **ICG**
0055 260555Z 02046G52 1/16SM **-SN BLSN FZFG** VV000 M11/M11 RMK LGT **ICG**
0153 260653Z 35029G43KT 1/16SM **BLSN FZFG** VV000 M13/M13 RMK **SNE**40 LGT **ICG**
0258 260758Z 35046G56KT 1/16SM **BLSN FZFG** VV000 M13/M13 RMK LGT **ICG**
0453 260953Z 34048G62KT 0SM **BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
0553 261053Z 33052G64KT 0SM **BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
0651 261151Z 33053G67KT 0SM **BLSN FZFG** VV000 M15/M15 RMK LGT **ICG**
0745 261245Z 32053G64KT 1/16SM **BLSN FZFG** VV000 M15/M15 RMK LGT **ICG**
0859 261359Z 32049G76KT 0SM **BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
0953 261453Z 32048G63KT 1/16SM **BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
1056 261556Z 32061G76KT 0SM **BLSN FZFG** VV000 M13/M13 RMK LGT **ICG**
1155 261655Z 32058G75KT 1/16SM **BLSN FZFG** VV000 M12/M12 RMK LGT **ICG**
1250 261750Z 32057G70KT 0SM **FZFG** VV000 M12/M12 RMK LGT **ICG**
1356 261856Z 31063G71KT 1/16SM **FZFG** VV000 M13/M13 RMK LGT **ICG** SUN DMLY VSBL
1455 261955Z 31061G73KT 0SM **FZFG** VV000 M13/M13 RMK LGT **ICG**
1550 262050Z 31066G75KT 1/16SM **FZFG** VV000 M13/M13 RMK LGT **ICG**
1659 262159Z 31063G71KT 1/16SM **FZFG** VV000 M14/M14 RMK LGT **ICG**
1756 262256Z 31056G68KT 1/16SM **FZFG** VV000 M14/M14 RMK LGT **ICG**
1851 262351Z 31062G75KT 1/16SM **FZFG** VV000 M15/M15 RMK LGT **ICG**
1959 270059Z 31068G72KT 15SM SCT000 SCT050 M14/M15 RMK INTMT **FZFG**
2058 270158Z 29055G71KT 25SM FEW005 SCT050 M14/M16 RMK ACSL ALQDS
2159 270259Z 30056G72KT 25SM FEW005 FEW020 M14/M16 RMK ACSL N SE
2257 270357Z 31049G63KT 65SM SCT005 M14/M15
2356 270456Z 31048G62KT 65SM SKC M13/M15
0052 270552Z 31053G67KT 65SM FEW005 M14/M16

00-01	(0.2)	98	039	10	032	20	037	21	6	-11	1	-11	-5	0	-11	91
			16	6	13	3	10	3	13	6	12	6	9	1		1
01-02	(0.4)	98	015	10	010	20	015	19	5	-10	0	-9	-5	1	-11	90
			18	5	16	4	20	4	14	4	12	4	10	1	1	1
02-03	(3.1)	98	357	12	355	24	356	22	2	-12	2	-10	-1	2	-12	90
			12	2	14	3	14	3	16	2	13	2	12	1		
03-04	(15.6)	98	354	12	352	28	352	25	2	-16	2	-13	0	3	-12	90
			15	2	16	3	8	4	17	2	13	3	14	2		1
04-05	(8.4)	98	355	12	351	31	348	27	4	-19	8	-15	3	4	-13	89
			15	2	15	5	4	4	20	3	16	3	14	2		1
05-06	(14.8)	98	351	14	346	37	346	32	5	-23	5	-18	0	5	-13	89
			37	2	19	5	4	5	23	3	17	3	14	2		
06-07	(28.6)	98	344	17	340	42	340	35	4	-26	4	-18	0	7	-13	89
			27	2	17	4	9	5	31	3	28	4	15	3		
07-08	(24.2)	98	330	16	331	43	328	37	0	-26	2	-21	2	5	-13	89
			50	2	15	5	7	5	45	3	42	4	12	3		

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08-09	(9.9)	98	327	15	333	41	331	35	-2	-26	-4	-20	2	6	-13	89
			67	2	29	5	5	5	61	3	54	4	15	2		
09-10	(6.6)	98	145	13	326	41	328	35	16	-27	13	-21	-3	6	-13	89
			171	2	28	5	8	5	62	4	61	3	13	2		
10-11	(5.0)	98	311	13	325	44	327	36	-11	-31	-16	-23	-2	8	-12	90
			97	2	17	6	4	5	91	4	89	4	16	2		1
11-12	(6.3)	98	150	13	328	47	330	40	5	-34	-2	-26	-3	7	-11	91
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12-13	(0.9)	98	150	11	321	46	326	41	11	-35	5	-30	-6	5	-11	91
			151	2	16	4	10	4	75	3	76	4	14	2		
13-14	(1.0)	98	106	7	317	45	323	40	12	-38	2	-32	-6	5	-11	90
			123	1	15	4	5	5	84	4	80	4	13	2		
14-15	(0.2)	98	114	6	312	48	318	41	-5	-41	-11	-35	-6	6	-12	90
			130	1	11	4	3	4	91	3	92	4	10	2		
15-16	(0.7)	98	337	3	311	49	317	42	27	-47	20	-40	-7	7	-12	90
			79	2	15	4	4	4	82	4	80	5	13	2		
16-17	(0.3)	98	101	1	310	50	316	44	28	-49	22	-43	-6	6	-12	89
			142	1	17	3	3	4	68	3	67	4	11	2		
17-18	(0.0)	98	246	2	308	47	313	41	-62	-45	-67	-39	-5	6	-13	89
			20	1	18	4	6	4	16	4	13	4	11	2		
18-19	(8.3)	98	159	5	311	54	312	47	3	-49	2	-41	-1	7	-14	88
			129	1	12	5	7	5	71	4	72	4	9	2		
19-20	(0.9)	98	329	5	310	57	312	49	19	-52	17	-45	-2	7	-14	88
			91	1	8	4	3	4	73	4	73	4	7	2		
20-21	(0.3)	98	343	3	309	55	310	48	34	-52	33	-45	-1	7	-14	88
			99	2	10	4	4	4	66	3	67	4	7	2		
21-22	(0.2)	98	211	2	308	51	309	46	-27	-50	-28	-44	-1	6	-14	88
			98	1	12	4	7	4	56	4	56	4	9	2		
22-23	(0.8)	98	137	1	310	51	310	45	19	-50	19	-44	0	6	-14	89
			158	1	13	5	7	5	68	5	68	5	10	2		
23-24	(0.3)	98	156	0	310	47	309	41	14	-46	15	-41	0	5	-13	89
			159	1	14	5	13	5	67	5	67	5	11	2		

Mt. Washington Data

DATE = 0227

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2356 270456Z 31048G62KT 65SM SKC M13/M15
0052 270552Z 31053G67KT 65SM FEW005 M14/M16
0256 270756Z 31055G68KT 65SM SKC M16/
0359 270859Z 30061G72KT 65SM SKC M15/M18
0455 270955Z 31053G75KT 65SM SKC M15/M20
0557 271057Z 32057G74KT 90SM FEW020 M16/M20
0657 271157Z 32053G75KT 90SM FEW020 M16/M20
0855 271355Z 30053G60KT 90SM FEW002 FEW020 M15/M18
0956 271456Z 30053G59KT 90SM FEW002 FEW030 M13/M21
1059 271559Z 30041G50KT 90SM FEW020 M14/M18
1150 271650Z 31037G45KT 90SM FEW010 M11/M17
1257 271757Z 29024G41KT 75SM FEW010 M12/M17
1358 271858Z 29023G31KT 75SM FEW020 M12/M17
1455 271955Z 28024G32KT 75SM SKC M10/M16 RMK  HZ DSNT W-NE
1555 272055Z 28012G24KT 75SM FEW060 M11/M17 RMK  HZ DSNT ALQDS
1659 272159Z 30006KT 100SM FEW060 M10/M19
1755 272255Z 31012KT 90SM FEW180 M09/M13
1956 280056Z 33013KT 65SM SKC M07/M23
2059 280159Z 35009KT 65SM SKC M07/M19
2149 280249Z 34006KT 65SM SKC M06/M20
2259 280359Z 34005KT 65SM SKC M06/M21
2359 280459Z 15006KT 65SM SKC M06/M20
0057 280557Z 17010KT 65SM SCT180 M07/M22
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00-01	(0.0)	98	115	0	312	47	311	42	-11	-47	-11	-42	1	5	-14	88
			162	1	14	5	10	5	64	5	62	5	12	2		
01-02	(0.2)	98	159	0	312	48	311	43	12	-48	12	-43	0	5	-14	88
			160		14	5	9	5	63	5	64	5	13	2		
02-03	(0.1)	98	133	0	309	47	309	42	-9	-47	-9	-42	0	5	-15	87
			168	1	15	6	10	6	60	6	61	6	12	2		
03-04	(0.2)	98	293	0	313	48	312	42	-20	-47	-19	-42	1	5	-15	87
			61		14	6	13	6	56	6	57	6	11	2		
04-05	(0.2)	98	198	0	316	50	315	44	-15	-50	-14	-44	1	6	-15	87
			127	1	17	6	11	6	58	6	57	6	13	2		
05-06	(0.3)	98	098	0	313	51	313	45	-17	-51	-18	-45	0	6	-16	86
			160	1	16	6	10	6	55	6	53	6	12	2		
06-07	(0.4)	98	252	5	313	53	312	47	-39	-48	-39	-42	1	6	-16	86
			60	2	24	6	16	6	28	5	29	5	11	2		
07-08	(0.2)	98	244	7	314	51	314	45	-29	-44	-28	-38	0	6	-16	87
			88	1	12	5	6	5	37	5	37	5	10	2		
08-09	(0.0)	98	174	6	314	45	314	40	1	-39	1	-34	0	5	-15	87
			159	1	9	3	5	4	49	3	50	3	8	2		

Mt. Washington Data

09-10	98	251	6	314	42	314	37	-28	-36	-28	-31	0	5	-14	88
		82	1	10	3	5	3	35	3	34	3	9	1		
10-11	88	296	6	319	37	318	33	-22	-31	-22	-27	0	4	-14	88
	26	42	3	16	3	5	3	34	5	33	5	8	1		1
11-12	23	327	0	319	30	318	27	8	-30	9	-27	1	4	-12	89
		17		14	4	8	4	17	4	16	4	12	2	1	1
12-13	23	312	0	304	28	305	24	7	-28	7	-24	0	4	-11	86
		19		42	3	13	3	14	3	13	3	11	1		2
13-14	23	296	0	290	25	290	21	6	-25	6	-21	0	3	-11	85
		14		10	3	8	3	8	3	9	3	7	1		1
14-15	23	305	0	296	25	296	22	9	-25	9	-22	0	3	-10	81
		15		10	3	11	3	8	3	9	3	8	1		2
15-16	22	301	0	293	20	293	18	8	-20	8	-18	1	3	-9	73
		21		23	3	13	3	11	3	11	3	10	1		3
16-17	23	307	0	296	16	296	13	11	-16	11	-13	0	2	-9	66
		21		34	4	17	3	14	4	13	3	15	1		3
17-18	23	324	0	315	11	314	10	9	-11	11	-10	2	1	-10	57
		38		36	3	36	3	16	3	16	3	15	1		2
18-19	23	346	0	337	8	337	7	9	-8	10	-7	0	1	-10	50
		49		65	3	42	3	17	3	17	3	19	1	1	2
19-20	22	326	0	334	10	316	9	7	-10	10	-9	3	1	-8	45
		33		81	4	39	3	13	4	11	3	12	1		1
20-21	22	008	0	001	10	003	9	7	-10	5	-9	-2	0	-8	40
		34		22	3	31	3	12	3	10	3	10	1	1	2
21-22	22	045	0	027	4	046	5	6	-4	6	-5	5	-1	-7	37
		57		41	2	65	2	30	2	36	2	40	1		1
22-23	23	118	0	107	5	110	5	11	-5	8	-5	-3	0	-8	36
		77		75	2	78	1	4	2	4	1	4	1		1
23-24	22	172	0	168	5	167	6	5	-5	6	-6	1	0	-8	37
		20		22	1	21	1	2	1	5	1	5			1

Mt. Washington Data

DATE = 0228

2359 280459Z 15006KT 65SM SKC M06/M20
0057 280557Z 17010KT 65SM SCT180 M07/M22
0152 280652Z 18012KT 65SM OVC150 M08/M23
0357 280857Z 18011KT 65SM SCT150 M08/M21
0458 280958Z 19014KT 65SM FEW150 M08/M15
0552 281052Z 18021KT 65SM FEW080 FEW120 M08/M18
0653 281153Z 19023KT 90SM FEW050 SCT080 BKN180 M06/M19
0746 281246Z 19024G30KT 90SM SCT060 BKN150 M07/M18
0849 281349Z 17032G37KT 90SM SCT 080 BKN150 M06/M17
0955 281455Z 17037G43KT 90SM SCT080 BKN150 M05/M20
1057 281557Z 17042G52KT 90SM BKN060 OVC150 M06/M23 RMK ACSL S-W
1159 281659Z 17048G56KT 90SM BKN080 BKN150 M06/M18 RMK VIRGA N ACSL SW-E
1253 281753Z 17046G56KT 75SM SCT010 OVC040 M07/M20 RMK VIRGA N-NE ACSL ALQDS
1358 281858Z 17038G49KT 40SM SCT010 OVC050 M09/M17 RMK VIS W 2 ACSL N-E
1457 281957Z 17053G60KT 20SM OVC020 M09/M18 RMK **SNB**20 VIRGA NW-NE ACSL N
1555 282055Z 16049G60KT 0SM **-SN** VV000 M11/M11 RMK LGT **ICG**
1651 282151Z 15047G56KT 0SM **-SN BLSN FZFG** VV000 M10/M10 RMK LGT **ICG**
1754 282254Z 15053G66KT 0SM **-SN BLSN FZFG** VV000 M11/M11 RMK LGT **ICG**
1956 290056Z 15055KT 0SM **-SN BLSN FZFG** VV000 M10/M10 RMK LGT **ICG**
2055 290155Z 15057G62KT 0SM **-SN BLSN FZFG** VV000 M09/M09 RMK LGT **ICG**
2148 290248Z 14046G52KT 0SM **-SN BLSN FZFG** VV000 M09/M09 RMK LGT **ICG**
2257 290357Z 14045KT 0SM **-SN BLSN FZFG** VV000 M08/M08 RMK LGT **ICG**
2359 290459Z 15038G48KT 0SM PL **FZRA FZFG** VV000 M06/M06 RMK **SNE**PLB**FZRA**B30 LGT **GICG**
0054 290554Z 15046G57KT 0SM **-SN BLSN FZFG** VV000 M04/M04 RMK PLE**FZRA**E**SNB**25 LGT **ICG**

00-01	23	164	0	161	8	158	9	3	-8	6	-9	3	0	-8	34
		11		10	1	11	1	3	1	2	1	3			2
01-02	23	172	0	167	12	166	12	5	-12	6	-12	1	0	-8	30
		9		8	1	7	1	5	1	4	1	4	1		2
02-03	22	206	0	199	14	197	14	6	-14	8	-14	2	1	-7	30
		43		39	1	31	2	7	1	7	2	7	1		1
03-04	22	194	0	187	15	187	15	6	-15	7	-15	1	1	-7	29
		17		21	2	14	2	5	2	5	2	5	1		1
04-05	23	195	0	189	17	187	16	6	-17	7	-16	1	1	-8	37
		16		14	2	10	2	10	2	10	2	10	1		5
05-06	23	192	0	185	20	185	19	7	-20	8	-19	1	2	-7	37
		30		21	2	6	2	13	2	14	2	14	1		3
06-07	22	190	0	185	21	183	19	5	-21	7	-19	2	2	-6	30
		22		27	3	8	4	14	3	16	4	16	1		2
07-08	21	192	0	185	21	184	19	7	-21	8	-19	1	2	-5	31
		20		17	3	9	3	15	3	16	3	13	1		2
08-09	21	180	0	176	24	173	22	4	-24	7	-22	3	1	-6	35

Mt. Washington Data

			1	20		49	4	12	4	11	4	10	4	9	1		4
09-10			20	171 23	0	168 20	29 3	164 25	28 3	4 8	-29 3	7 9	-28 3	4 8	2 1	-4	24 3
10-11			21 1	171 10	0	167 12	34 3	163 4	32 3	4 9	-34 3	7 9	-32 3	4 8	2 1	-5 1	26 2
11-12			22 1	169 7	0	167 7	38 2	162 3	36 3	2 8	-38 2	7 7	-36 3	5 7	2 1	-7 1	33 4
12-13			22	171 10	0	169 10	39 2	163 6	37 3	2 9	-39 2	8 8	-37 3	6 7	2 1	-7	35 3
13-14			23	170 14	0	167 9	35 3	163 7	33 3	4 9	-35 3	8 8	-33 3	4 7	2 1	-8	42 4
14-15		(0.0)	23	168 10	0	165 10	39 3	161 4	36 3	4 10	-39 3	8 7	-36 3	4 8	2 1	-9	54 4
15-16		(16.3)	26 2	169 8	0	165 12	41 3	161 6	37 4	4 10	-41 3	8 9	-37 4	4 10	3 2	-10	82 12
16-17		(37.8)	79 25	162 12	0	156 24	38 3	153 14	34 4	6 13	-38 3	9 9	-34 4	4 11	3 3	-9	92
17-18	198	(83.8)	98	154 11	0	150 30	40 3	147 10	38 6	4 15	-40 3	8 11	-38 6	3 13	2 4	-10	92
18-19	12	(99.3)	62 36	153 15	0	146 12	41 4	145	31 6	7 15	-41 4	11 11	-31 6	-5 14	5 4	-10	91
19-20	12	(99.6)	98	150 17	0	142 22	37 2	181 76	30 14	8 18	-37 2	-30 66	-30 14	-37 74	9 12	-10	92
20-21	0	(100.0)	98	147 22	0	139 18	39 3	000	0	8 18	-39 3	0	0	0	0	-9	93
21-22	2	(99.9)	98	145 23	0	138 16	35 5	119	24 2	8 19	-35 5	15 24	-24 2	27 2	3 2	-8	93
22-23	22	(98.5)	98	147 27	0	137 15	32 3	137	22 4	10 17	-32 3	10 13	-22 4	0 17	7 5	-8	94
23-24		(35.2)	98	146 14	0	139 13	29 3	140 4	24 3	6 16	-29 3	6 14	-24 3	-1 13	4 2	-7	94

Mt. Washington Data

DATE = 0301

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2359 010459Z 15038G48KT 0SM PL FZRA FZFG VV000 M06/M06 RMK  SNEPLBFZRAB30 LGT GICG
0054 010554Z 15046G57KT 0SM -SN BLSN FZFG VV000 M04/M04 RMK  PLEFZRAESNB25 LGT ICG
0159 010659Z 15042G49KT 0SM FZRA FZFG VV000 M04/M04 RMK  LGT GICG
0255 010755Z 15044G50KT 0SM FZRA FZFG VV000 M03/M03 RMK  MOD GICG
0352 010852Z 15042G55KT 0SM FZRA FZFG VV000 M03/M03 RMK  MOD GICG
0459 010959Z 15038G44KT 0SM FZRA IP FZFG VV000 M03/M03 RMK  IPB40 MOD GICG
0555 011055Z 15035G44KT 0SM -FZRA IP FZFG VV000 M03/M03 RMK  MOD GICG
0655 011155Z 15044G53KT 0SM -FZRA FZFG VV000 M02/M02 RMK  PLE10 LGT ICG
0746 011246Z 15038G48KT 0SM -FZRA FZFG VV000 M02/M02 RMK  LGT GICG
0855 011355Z 14046G58KT 0SM -FZRA FZFG VV000 M02/M02 RMK  MOD GICG
0957 011457Z 15041G49KT 0SM -FZRA FZFG VV000 M02/M02 RMK  MOD GICG
1059 011559Z 15030KT 0SM -FZRA FZFG VV000 M02/M02 RMK  MOD GICG
1158 011658Z 1503036KT 1/8SM FZFG VV000 M02/M02 RMK  FZFRAE30 FZFG INTMT
1252 011752Z 18017KT 1/16SM FZFG VV000 M02/M02 RMK  FZFG INTMT LGT GICG
1358 011858Z 18012KT 1/16SM FZFG BKN000 OVC120 M03/M03 RMK  FZFG INTMT LGT GICG
1457 011957Z 15009KT 0SM FZFG VV000 M03/M03 RMK  LGT GICG
1553 012053Z 15009KT 1/16SM FZFG VV000 M03/M03 RMK  LGT GICG
1659 012159Z 19012KT 1/16SM FZFG VV000 M04/M04 RMK  LGT ICG
1752 012252Z 19008KT 1/16SM -SN FZFG VV000 M07/M07 RMK  SNB40 LGT ICG
1847 012347Z 26014KT 0SM -SN FZFG VV000 M08/M08 RMK  LGT ICG
1950 020050Z 26016KT 0SM -SN FZFG VV000 M08/M08 RMK  LGT ICG
2059 020159Z 15017KT 0SM FZFG VV000 M08/M08 RMK  SNE25 LGT ICG
2159 020259Z 15017KT 0SM -SN FZFG VV000 M08/M08 RMK  SNB40 LGT ICG
2258 020358Z 18023KT 0SM -SN FZFG VV000 M08/M08 RMK  LGT ICG
2357 020457Z 22020KT 0SM -SN FZFG VV000 M10/M10 RMK  LGT ICG
0051 020551Z 23023KT 0SM -SN FZFG VV000 M10/M10 RMK  LGT ICG
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00-01	(0.4)	99	152	0	145	28	142	25	0	0	0	0	3	3	-5	96
			23		18	4	4	4					15	2	1	1
01-02	(2.7)	98	160	0	147	29	144	27	0	0	0	0	2	3	-4	97
			13		29	3	5	3					15	2		
02-03		98	166	0	135	27	138	24	0	0	0	0	-3	3	-3	97
					27	4	4	4					17	2		
03-04		98	166	0	135	25	138	23	0	0	0	0	-3	3	-2	98
					21	4	5	4					20	2		
04-05		99	166	0	121	25	132	23	0	0	0	0	-11	2	-2	98
					31	3	8	3					15	2		
05-06		80	166	0	135	22	137	20	0	0	0	0	-2	1	-2	98
		19			22	3	6	3					17	2		
06-07		80	166	0	150	29	142	25	0	0	0	0	7	4	0	98
		33			34	4	3	4					16	2	1	
07-08		99	166	0	144	30	140	25	0	0	0	0	4	5	0	99
		1			33	4	6	4					16	2		

Mt. Washington Data

08-09		99	166	0	141 39	28 3	137 3	22 3	0	0	0	0	4 15	6 2	1	99
09-10	(0.0)	98 1	166	0	135 31	29 4	136 2	21 4	0	0	0	0	-1 16	8 2	0	99
10-11		98	166	0	133 28	25 2	136 5	18 2	0	0	0	0	-3 14	8 1	1	99
11-12		98	166	0	150 33	20 3	140 5	15 3	0	0	0	0	10 16	5 1	1	99
12-13		44 36	166	0	178 14	20 2	147 4	13 3	0	0	0	0	32 11	7 2	1	99
13-14		42 34	167 2	0	196 14	15 3	151 8	6 2	0	0	0	0	45 14	8 3	1	99
14-15		93 13	171 2	0	192 24	12 2	153 18	7 2	0	0	0	0	39 17	5 2	0 1	99
15-16		98	173	0	172 17	11 1	144 3	7 1	0	0	0	0	28 12	3 1	-1	98
16-17		99	173	0	184 32	9 3	148 10	5 2	0	0	0	0	37 15	4 2	-2	98
17-18		84 27	173	0	225 8	9 1	165 42	8 1	0	0	0	0	60 27	1 2	-5 1	95 1
18-19		91 11	173	0	244 25	9 2	214 87	8 2	0	0	0	0	30 29	1 2	-6	95
19-20		99 2	173	0	253 23	8 2	236 20	8 2	0	0	0	0	16 11	0 1	-7	94
20-21		99	173	0	211 37	7 2	173 65	5 2	0	0	0	0	38 22	2 2	-7	95
21-22		99	173	0	175 24	7 2	146 14	5 1	0	0	0	0	29 13	2 1	-6	95
22-23		99	173	0	209 39	6 2	174 44	4 1	0	0	0	0	35 18	2 2	-7	94
23-24		99	173	0	218 35	10 3	185 52	7 3	0	0	0	0	33 23	3 3	-8	94

Mt. Washington Data

DATE = 0302

2357 020457Z 22020KT 0SM **-SN FZFG** VV000 M10/M10 RMK LGT **ICG**
0051 020551Z 23023KT 0SM **-SN FZFG** VV000 M10/M10 RMK LGT **ICG**
0159 020659Z 23020KT 0SM **-SN FZFG** VV000 M10/M10 RMK LGT **ICG**
0357 020857Z 23021KT 0SM **-SN FZFG** VV000 M11/M11 RMK LGT **ICG**
0451 020951Z 25019KT 0SM **-SN FZFG** VV000 M11/M11 RMK LGT **ICG**
0550 021050Z 26019KT 1/16SM **-SN FZFG** VV000 M11/M11 RMK LGT **ICG**
0646 021146Z 26027KT 0SM **-SN FZFG** VV000 M12/M12 RMK LGT **ICG**
0745 021245Z 26024KT 0SM **-SN FZFG** VV000 M13/M13 RMK LGT **ICG**
0856 021356Z 26021KT 0SM **-SN FZFG** VV000 M14/M14 RMK LGT **ICG**
0946 021446Z 26013KT 0SM **-SN FZFG** VV000 M14/M14 RMK LGT **ICG**
1053 021553Z 26020KT 0SM **FZFG** VVOOO M13/M13 RMK **SNE**30 LGT **ICG**
1154 021654Z 26022KT 0SM **FZFG** VV000 M13/M13 RMK LGT **ICG**
1243 021743Z 25022KT 0SM **-SN FZFG** VV000 M12/M12 RMK **SNB**15 LGT **ICG**
1355 021855Z 26029KT 0SM **-SN FZFG** VV000 M13/M13 RMK LGT **ICG**
1456 021956Z 26031G37KT 0SM **-SN FZFG** VV000 M14/M14 RMK LGT **ICG**
1545 022045Z 27032G38KT 0SM **-SN FZFG** VV000 M14/M14 RMK LGT **ICG**
1659 022159Z 27042G48KT 0SM **-SN FZFG** VV000 M14/M14 RMK LGT **ICG**
1759 022259Z 27044KT 0SM **-SN BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
1859 022359Z 27043G52KT 0SM **-SN BLSN FZFG** VV000 RMK LGT **ICG**
1959 030059Z 27046KT 0SM **-SN BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
2058 030158Z 27042G50KT 0SM **-SN BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
2159 030259Z 29048KT 0SM **-SN BLSN FZFG** VV000 M16/M16 RMK LGT **ICG**
2259 030359Z 27048KT 0SM **BLSN FZFG** VV000 M16/M16 RMK **SNE**30 MOON DMLY VSBL LGT **ICG**
2359 030459Z 29048G57KT 1/16SM **BLSN FZFG** VV000 M16/M16 RMK **FZFG** INTMT LGT **ICG**
0051 030551Z 30048G55KT 1/16SM **BLSN FZFG** VV000 M16/M16 RMK MOON DMLY VSBL LGT **ICG**

00-01		95	173	0	230	13	201	10	0	0	0	0	29	2	-8	93
		6			40	2	53	3					23	3		
01-02		99	173	0	231	13	203	11	0	0	0	0	27	2	-9	93
		1			16	2	27	3					21	3		
02-03		89	173	0	245	17	230	16	0	0	0	0	15	1	-9	93
		7			14	2	8	2					12	2		
03-04		87	173	0	256	17	240	15	0	0	0	0	16	2	-9	93
		5			15	2	8	2					10	1		
04-05		78	173	0	263	17	246	14	0	0	0	0	17	3	-9	93
		5			10	2	10	2					9	1		
05-06	(21.7)	76	173	0	272	17	263	12	0	0	0	0	9	5	-10	92
		4			21	3	24	3					17	3		
06-07	(0.3)	47	173	0	279	23	270	13	0	0	0	0	9	10	-11	91
		10			8	3	15	2					9	3		
07-08	(0.1)	35	173	0	282	24	273	13	0	0	0	0	9	11	-12	91
		11			8	2	10	2					8	3		

Mt. Washington Data

08-09			49 9	173	0	285 7	22 2	278 8	11 2	0	0	0	0	8 7	11 2	-12	90
09-10			88 10	173	0	276 7	16 3	265 7	10 2	0	0	0	0	11 5	6 2	-12	90
10-11			99	173	0	282 7	24 2	274 6	15 1	0	0	0	0	9 6	9 2	-12	90
11-12			99	173	0	287 7	24 2	277 6	15 2	0	0	0	0	11 6	9 2	-11	91
12-13			99	173	0	293 9	24 3	285 10	13 3	0	0	0	0	8 6	11 1	-11	91
13-14		(0.1)	91 10	173	0	287 9	27 2	276 9	16 2	0	0	0	0	11 6	11 2	-11	91
14-15	192	(54.6)	60 9	173	0	291 12	29 2	284 24	18 4	0	0	0	0	5 20	10 3	-12	90
15-16	123	(87.9)	16 16	173	0	303 17	34 3	236 12	31 4	0	0	0	0	66 11	3 5	-12	90
16-17	272	(66.5)	0	173	0	304 11	38 3	243 5	29 2	0	0	0	0	60 8	8 3	-12	90
17-18	152	(90.5)	0	173	0	302 9	44 3	248 7	32 2	0	0	0	0	52 8	11 3	-12	90
18-19	168	(81.4)	0	173	0	308 9	49 3	250 8	33 2	0	0	0	0	58 10	15 3	-13	90
19-20	0	(100.0)	0	173	0	308 10	45 3	000	0	0	0	0	0	0	0	-13	90
20-21	1	(100.0)	0	173	0	306 10	48 4	343	0	0	0	0	0	-36	52	-13	89
21-22	0	(100.0)	0	173	0	306 8	48 3	000	0	0	0	0	0	0	0	-14	89
22-23	0	(100.0)	0	173	0	307 7	47 3	000	0	0	0	0	0	0	0	-14	88
23-24	0	(100.0)	0	173	0	314 16	48 4	000	0	0	0	0	0	0	0	-15	88

Mt. Washington Data

DATE = 0303

```
2359 030459Z 29048G57KT 1/16SM BLSN FZFG VV000 M16/M16 RMK  FZFG INTMT LGT ICG
0051 030551Z 30048G55KT 1/16SM BLSN FZFG VV000 M16/M16 RMK  MOON DMLY VSBL LGT ICG
0159 030659Z 30049G57KT 25SM DRSN SCT/// SKC M14/M20 RMK  TPS LWR SCT035
0259 030759Z 29046G52KT 25SM DRSN FEW/// FEW180 M11/M28 RMK  TPS LWR FEW035
0359 030859Z 29042KT 25SM FEW010 BKN180 M11/M29
0456 030956Z 26032KT 65SM FEW020 SCT100 M11/M23
0552 031052Z 30030KT 65SM BKN080 M09/M15
0651 031151Z 26026KT 65SM OVC060 M08/M22
0746 031246Z 26020KT 40SM SCT020 BKN060 OVC150 M08/M21
0853 031353Z 23019KT 30SM OVC005 M07/M20 RMK  VIRGA N-S SUN DMLY VSBL
0952 031452Z 22017KT 15SM OVC002 M07/M16 RMK  SUN DMLY VSBL
1047 031547Z 23021G41KT 1/16SM -SN FZFG VV000 M07/M07 RMK  SNB15 LGT ICG
1156 031656Z 21031KT 1/8SM FZFG VV000 M08/M08 RMK  INTMT FZFG
1250 031750Z 20033G41KT 10SM DRSN FEW/// SCT040 OVC060 M07/M19 RMK  SNE1645 TPS LWR FEW040 INTMT FZFG ACSL NE
1455 031955Z 19043G55KT 1 1/2SM BR DRSN VV010 M08/M13 RMK  INTMT FZFG
1559 032059Z 19044G58KT 35SM DRSN FEW/// OVC020 M08/M12 RMK  BBLO N INTMT FZFG
1654 032154Z 19048G58KT 50SM DRSN BKN020 OVC040 M08/M11
1752 032252Z 18053G63KT 50SM DRSN BKN020 OVC040 M08/M11
1852 032352Z 18052G60KT 1/4SM FZFG DRSN VV000 M09/M09 RMK  FZFG INTMT LGT ICG
1956 040056Z 18053G62KT 1/16SM FZFG DRSN VV000 M07/M07 RMK  LGT ICG
2053 040153Z 18049G57KT 1/16SM FZFG DRSN VV000 M05/M05 RMK  LGT ICG
2155 040255Z 13048G60KT 1/16SM SN BLSN FZFG VV000 M05/M05 RMK  SNB25 MOD ICG
2254 040354Z 15049G66KT 1/16SM -SN BLSN FZFG VV000 M04/M04 RMK  LGT ICG
2359 040459Z 15046G57KT 1/16SM -SN BLSN FZFG VV000 M03/M03 RMK  LGT ICG
0058 040558Z 15058G78KT 1/16SM -SN BLSN FZFG VV000 M02/M02 RMK  LGT ICG
```

00-01	2	(99.9)	0	173	0	321	44	343	0	0	0	0	0	-29	48	-15	88
						12	4							5	1		
01-02	63	(83.6)	0	173	0	320	46	315	34	0	0	0	0	6	15	-15	88
						12	3	8	3					10	2		
02-03		(2.9)	21	173	0	320	43	315	32	0	0	0	0	6	11	-14	88
			18			22	4	5	4					9	3		
03-04		(0.4)	6	173	0	314	38	309	30	0	0	0	0	5	8	-14	89
			8			11	3	11	3					8	2		
04-05			39	173	0	309	30	304	24	0	0	0	0	5	7	-13	89
			37			14	3	11	2					7	1		
05-06			99	173	0	310	25	304	20	0	0	0	0	6	5	-13	89
						9	2	7	2					7	1		
06-07			99	173	0	297	19	290	16	0	0	0	0	7	4	-12	90
						7	2	8	2					5	1		
07-08			98	173	0	272	14	261	11	0	0	0	0	11	2	-11	91
						16	2	21	1					7	1		

Mt. Washington Data

08-09			40 44	173	0	238 16	13 2	226 16	13 2	0	0	0	0	13 13	0 2	-10	92
09-10		(0.0)	21 1	173	0	227 21	13 2	208 20	12 3	0	0	0	0	19 20	1 3	-9	92
10-11		(0.1)	21	173	0	201 41	17 4	185 54	13 6	0	0	0	0	16 23	4 3	-8 1	94 2
11-12		(0.8)	26 4	173	0	205 50	20 4	187 51	15 6	0	0	0	0	17 28	4 4	-6	95 1
12-13		(0.5)	18 9	173	0	171 22	26 4	152 11	17 4	0	0	0	0	20 20	9 3	-8 1	92
13-14		(1.8)	6 10	173	0	175 12	33 2	152 4	22 2	0	0	0	0	24 12	11 2	-9	92 1
14-15		(1.3)	22 3	173	0	174 17	35 3	150 6	25 3	0	0	0	0	24 9	10 2	-9	93
15-16		(1.4)	23	173	0	174 13	38 3	149 2	29 3	0	0	0	0	25 9	9 2	-8	93
16-17		(1.3)	23	173	0	174 9	40 3	150 3	29 3	0	0	0	0	24 8	11 2	-9	93
17-18		(0.7)	23	173	0	173 8	42 3	149 2	33 3	0	0	0	0	24 8	10 2	-8	93
18-19		(7.7)	23 1	173	0	174 9	45 4	149 3	34 3	0	0	0	0	25 9	11 2	-8	94
19-20		(2.7)	27 10	173	0	176 8	44 2	150 2	33 2	0	0	0	0	26 8	11 2	-7	94
20-21		(3.3)	94 10	173	0	175 8	44 4	149 3	32 3	0	0	0	0	26 9	11 2	-5 1	96 1
21-22		(21.1)	98	173	0	162 17	40 5	149 6	33 6	0	0	0	0	13 15	7 4	-4	97
22-23	280	(50.2)	98	162 19	0	162 28	45 7	152 11	38 7	0	0	0	0	10 18	6 4	-3 1	98 1
23-24		(3.6)	98	165 26	0	165 32	36 5	153 5	34 5	0	0	0	0	12 17	3 3	-3	97

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DATE = 0304

2359 040459Z 15046G57KT 1/16SM **-SN BLSN FZFG** VV000 M03/M03 RMK LGT **ICG**
0058 040558Z 15058G78KT 1/16SM **-SN BLSN FZFG** VV000 M02/M02 RMK LGT **ICG**
0158 040658Z 15060G71KT 1/16SM **FZRA FZFG** VV000 M02/M02 RMK MOD **GICG**
0256 040756Z 15062G76KT 1/16SM -**FZRA FZFG** VV000 M02/M02 RMK LGT **GICG**
0359 040859Z 15066G86KT 1/16SM -**FZRA FZFG** VV000 M02/M02 RMK PK WND 150112/35 LGT **GICG**
0459 040959Z 15063G72KT 1/16SM -**FZRA FZFG** VV000 M02/M02 RMK LGT **GICG**
0552 041052Z 15059G63KT 1/16SM -**FZRA FZFG** VV000 M02/M02 RMK LGT **GICG**
0652 041152Z 15053G63KT 1/16SM **FZRA FZFG** VV000 M00/M00 RMK LGT **GICG**
0747 041247Z 15044G56KT 1/16SM -**FZRA FZFG** VV000 M01/M01 RMK LGT **GICG**
0854 041354Z 15063G78KT 1/16SM -**FZRA FZFG** VV000 M02/M02 RMK LGT **GICG**
0959 041459Z 16059G74KT 1/16SM -PL **FZFG** VV000 M04/M04 RMK PLB05 **FZRA**E20 LGT **GICG**
1058 041558Z 17048G62KT 1/16SM **FZFG** VV000 M08/M08 RMK PLE35 LGT **ICG**
1153 041653Z 17041G52KT 1/16SM **-SN FZFG** VV000 M08/M08 RMK **SNB**30 LGT **ICG**
*1255 041755Z 17037G49KT 1/16SM SN **FZFG** VV000 M08/M08 RMK LGT **ICG**
1355 041855Z 17037G45KT 0SM SN **FZFG** VV000 M10/M10 RMK LGT **ICG**
1454 041954Z 18032G46KT 0SM **-SN FZFG** VV000 M10/M10 RMK LGT **ICG**
1558 042058Z 20012G 0SM **FZFG** VV000 M10/M10 RMK **SNE**45 LGT **ICG**
1657 042157Z 23018KT 1/16SM **FZFG** VV000 M10/M10 RMK LGT **ICG**
1754 042254Z 26029KT 1/16SM **FZFG** VV000 M11/M11 RMK LGT **ICG**
1858 042358Z 25026KT 0SM **-SN FZFG** VV000 M10/M10 RMK **SNB**10 LGT **ICG**
2050 050150Z 27033KT 0SM **-SN FZFG** VV000 M13/M13 RMK LGT **ICG**
2156 050256Z 27032KT 0SM **-SN FZFG** VV000 M16/M16 RMK LGT **ICG**
2257 050357Z 27042G49KT 0SM **-SN FZFG** VV000 M18/M18 RMK LGT **ICG**
2355 050455Z 27053G57KT 0SM **-SN FZFG** VV000 M20/M20 RMK LGT **ICG**
0055 050555Z 27050G55KT 0SM **-SN FZFG** VV000 M21/M21 RMK LGT **ICG**

00-01	(0.1)	98	162	0	156	41	149	34	0	0	0	0	7	7	-1	98
			28		43	6	10	5					17	3	1	
01-02	(0.1)	98	165	0	154	46	148	37	0	0	0	0	6	10	0	99
					25	7	10	6					17	3	1	
02-03	(0.4)	98	165	0	151	45	147	34	0	0	0	0	5	10	1	99
					23	6	7	5					17	3		
03-04	(4.2)	98	165	0	154	47	144	40	0	0	0	0	10	7	0	99
					18	6	8	6					17	3		
04-05	(8.2)	98	165	0	149	44	141	38	0	0	0	0	8	5	0	99
					24	5	22	7					25	5		
05-06	(0.2)	98	165	0	143	39	134	34	0	0	0	0	9	5	1	99
					19	4	10	4					15	2		
06-07	(0.5)	98	165	0	139	35	129	30	0	0	0	0	10	5	0	99
					68	6	20	6					19	2		
07-08	(0.2)	98	165	0	150	34	138	30	0	0	0	0	11	4	0	99
					26	4	10	4					18	2		

Mt. Washington Data

08-09		(9.1)	98	165	0	145 18	39 7	135 11	33 7	0	0	0	0	10 18	6 3	0	99
09-10		(22.0)	98	165	0	153 19	44 6	142 13	37 7	0	0	0	0	11 16	6 3	-2 1	99
10-11	281	(63.6)	98	165	0	169 21	42 7	158 21	31 6	0	0	0	0	10 21	10 5	-4 1	97 1
11-12	139	(77.4)	98	165	0	181 15	32 4	172 19	29 7	0	0	0	0	11 20	3 7	-7	95
12-13	79	(95.5)	98	165	0	168 35	29 5	189 119	31 11	0	0	0	0	-22 63	-4 11	-7	95
13-14	25	(99.2)	98	165	0	183 13	32 4	285 11	34 11	0	0	0	0	-100 15	-2 13	-7	94
14-15	17	(99.4)	98	165	0	183 16	32 3	256 66	43 11	0	0	0	0	-71 60	-10 12	-8	94
15-16	207	(79.4)	98	165	0	192 24	23 9	183 25	15 7	0	0	0	0	15 23	5 5	-8	94
16-17		(35.5)	98	165	0	220 27	16 3	199 29	11 6	0	0	0	0	21 20	4 4	-9	93
17-18		(58.4)	98	165	0	258 24	20 2	212 16	14 4	0	0	0	0	46 19	6 4	-9	93
18-19		(13.3)	98	165	0	272 11	23 3	220 11	14 2	0	0	0	0	52 11	9 2	-9	93
19-20	106	(78.7)	98	165	0	281 8	28 3	223 19	16 8	0	0	0	0	58 23	11 7	-9	93
20-21	1	(100.0)	98	165	0	285 7	29 2	343	0	0	0	0	0	-59	29	-10	93
21-22	0	(100.0)	99	165	0	285 10	31 4	000	0	0	0	0	0	0	0	-11	92
22-23	2	(99.9)	99	165	0	283 11	33 4	343	0	0	0	0	0	-52 4	39	-13 1	91
23-24	0	(100.0)	99	165	0	291 10	42 5	000	0	0	0	0	0	0	0	-15 1	89

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DATE = 0305

2355 050455Z 27053G57KT 0SM **-SN FZFG** VV000 M20/M20 RMK LGT **ICG**
0055 050555Z 27050G55KT 0SM **-SN FZFG** VV000 M21/M21 RMK LGT **ICG**
0156 050656Z 27060G66KT 0SM **-SN FZFG** VV000 M21/M21 RMK LGT **ICG**
0256 050756Z 27066G73KT 0SM **-SN FZFG** VV000 M21/M21 RMK LGT **ICG**
0358 050858Z 27070G79KT 0SM **-SN BLSN FZFG** VV000 M22/M22 RMK LGT **ICG**
0456 050956Z 29071G82KT 0SM **BLSN FZFG** VV000 M21/M21 RMK **SNE**10 LGT **ICG**
0558 051058Z 29071G79KT 0SM **BLSN FZFG** VV000 M21/M21 RMK LGT **ICG**
0650 051150Z 29063G71KT 1/16SM **FZFG** BKN000 M22/M22 RMK **FZFG** BKN000 LGT **ICG**
0744 051244Z 29062G71KT 1/16SM **FZFG** BKN000 M22/M22 RMK **FZFG** BKN000 LGT **ICG**
0756 051256Z 29065G74KT 1/16SM **FZFG** BKN000 M21/M21 RMK **FZFG** BKN000 LGT **ICG**
0952 051452Z 29063G76KT 1/16SM **FZFG** VV000 M21/M21 RMK LGT **ICG**
1055 051555Z 29062G71KT 1/16SM **FZFG** BKN000 M20/M20 RMK **FZFG** BKN000 LGT **ICG**
1158 051658Z 29053G59KT 1/16SM **FZFG** BKN000 M20/M20 RMK **FZFG** BKN000 LGT **ICG**
1255 051755Z 28051G62KT 1/16SM **FZFG** VV000 M19/M19 RMK **FZFG** INTMT LGT **ICG**
1358 051858Z 29050G57KT 55SM SCT/// SKC M19/M22 RMK TPS LWR SCT060 INTMT **FZFG**
1458 051958Z 30052G56KT 60SM FEW/// SKC M20/M23 RMK TPS LWR FEW060
1559 052059Z 29047G53KT 55SM PR **FZFG** BKN010 M20/M22 RMK VIS1/16 S-NW INTMT **FZFG**
1659 052159Z 29048G55KT 50SM FEW005 FEW050 M20/M23 RMK INTMT **FZFG**
1759 052259Z 27046G50KT 1/16SM **FZFG** VV000 M21/M21 RMK **FZFG** INTMT LGT **ICG**
1856 052356Z 29049G53KT 65SM FEW005 M22/M24 RMK INTMT **FZFG**
1957 060057Z 29047KT 65SM SKC M22/M25
2058 060158Z 29037KT 65SM SKC M22/M29
2152 060252Z 29032KT 65SM SKC M20/M24
2251 060351Z 29033KT 65SM SKC M21/M27
2350 060450Z 29031KT 65SM SKC M19/M29
0059 060559Z 29029KT 65SM SKC M19/M31

00-01	0	(100.0)	99	165	0	307 8	48 6	000	0	0	0	0	0	0	0	-17	88 1
01-02	88	(94.6)	98	165	0	311 6	58 4	316 9	35 3	0	0	0	0	-6 7	23 3	-18	86
02-03	246	(68.4)	99	165	0	316 4	62 5	308 26	49 6	0	0	0	0	9 9	14 5	-19	85
03-04		(31.2)	98 2	165	0	316 5	62 5	304 7	51 4	0	0	0	0	12 6	11 3	-20	84
04-05		(9.6)	98 1	165	0	319 2	66 5	309 5	54 5	0	0	0	0	9 4	12 4	-20	84
05-06		(2.6)	97 5	165	0	318 3	62 4	307 3	51 4	0	0	0	0	11 3	12 3	-20	83
06-07		(5.2)	96 5	165	0	317 5	60 5	308 6	47 4	0	0	0	0	9 5	13 4	-21	83
07-08		(0.6)	98 1	165	0	318 5	63 5	306 3	52 5	0	0	0	0	11 3	11 2	-21	83

Mt. Washington Data

08-09	(3.0)	99	165	0	319 2	68 4	306 2	57 4	0	0	0	0	12 3	11 2	-21	82
09-10	(2.8)	99	165	0	317 5	61 5	303 5	49 5	0	0	0	0	14 4	12 3	-21	83
10-11	(0.5)	99	165	0	316 7	58 5	302 6	46 4	0	0	0	0	14 4	12 2	-20	83
11-12	(1.1)	99	165	0	318 11	52 6	303 8	42 5	0	0	0	0	16 7	10 3	-20	83
12-13		99	165	0	309 12	43 5	294 10	35 4	0	0	0	0	15 8	8 2	-19	84
13-14		99	165	0	317 37	46 4	302 11	38 4	0	0	0	0	15 7	9 1	-18	84
14-15		99	165	0	318 10	46 3	302 9	37 3	0	0	0	0	16 7	9 1	-18	85
15-16		99	165	0	313 9	44 3	297 17	35 3	0	0	0	0	15 6	9 1	-18	85
16-17		99	165	0	313 14	45 2	298 11	36 2	0	0	0	0	15 6	9 1	-18	85
17-18		99	165	0	314 9	43 2	298 6	35 2	0	0	0	0	16 6	9 1	-18	85
18-19		99	165	0	313 10	43 3	298 9	34 2	0	0	0	0	16 6	9 1	-19	85
19-20		92 7	165	0	326 11	43 4	309 14	35 4	0	0	0	0	17 8	8 2	-20	84
20-21		99	165	0	322 19	37 5	305 13	30 4	0	0	0	0	16 9	7 2	-21	83
21-22		99	165	0	308 7	30 2	293 5	25 1	0	0	0	0	15 4	5 1	-21	83
22-23		99	165	0	313 8	30 2	298 6	24 2	0	0	0	0	15 5	5 1	-21	82
23-24		99	165	0	314 7	28 2	299 4	23 1	0	0	0	0	15 5	5 1	-21	82

Mt. Washington Data

DATE = 0306

2350 060450Z 29031KT 65SM SKC M19/M29
0059 060559Z 29029KT 65SM SKC M19/M31
0151 060651Z 27027KT 65SM FEW050 M17/M30
0255 060755Z 27032KT 65SM OVC030 M17/M28
0358 060858Z 27030KT 65SM OVC010 M15/M32
0459 060959Z 26030KT 65SM OVC020 M15/M30
0550 061050Z 26024KT 20SM OVC010 M15/M27
0652 061152Z 26021KT 1/8SM **FZFG** VV000 M17/M17 RMK **SNB**35 LGT **ICG**
0745 061245Z 26018KT 1/8SM **-SN FZFG** VV000 M13/M13 RMK LGT **ICG**
0851 061351Z 23017KT 1/16SM **-SN FZFG** VV000 M15/M15 RMK LGT **ICG**
0954 061454Z 23016KT 1/8SM **-SN FZFG** VV000 M14/M14 RMK LGT **ICG**
1054 061554Z 23018KT 1/8SM **-SN FZFG** VV000 M14/M14 RMK LGT **ICG**
1151 061651Z 21014KT 1/8SM **-SN FZFG** VV000 M16/M16 RMK LGT **ICG**
1251 061751Z 21016G25KT 1/8SM **-SN FZFG** VV000 M16/M16 RMK LGT **ICG**
1354 061854Z 21023G32KT 1/16SM **-SN FZFG** VV000 M17/M17 RMK LGT **ICG**
1453 061953Z 19026G31KT 1/16SM **-SN FZFG** VV000 M16/M16 RMK LGT **ICG**
1550 062050Z 17023G30KT 1/16SM **-SN FZFG** VV000 M16/M16 RMK LGT **ICG**
1654 062154Z 18024G32KT 1/16SM **-SN FZFG DRSN** VV000 M15/M15 RMK LGT **ICG**
1756 062256Z 17014KT 1/16SM **-SN FZFG DRSN** VV000 M16/M16 RMK LGT **ICG**
1855 062355Z 17024KT 1/16SM **-SN FZFG** VV000 M16/M16 RMK LGT **ICG**
1955 070055Z 17032KT 0SM SN **FZFG** VV000 M16/M16 RMK LGT **ICG**
2053 070153Z 17030KT 0SM SN **FZFG** VV000 M16/M16 RMK LGT **ICG**
2151 070251Z 15027KT 0SM SN **FZFG** VV000 M16/M16 RMK LGT **ICG**
2255 070355Z 13023KT 0SM SN **FZFG** VV000 M16/M16 RMK LGT **ICG**
2351 070451Z 13021KT 1/16SM **-SN FZFG** VV000 M17/M17 RMK LGT **ICG**
0053 070553Z 11017KT 1/16SM **-SN FZFG** VV000 M18/M18 RMK LGT **ICG**

00-01	99	165	0	308 10	24 1	295 7	20 1	0	0	0	0	14 3	4 1	-21	82
01-02	99	165	0	306 10	22 1	293 5	18 1	0	0	0	0	13 4	4 1	-20	83
02-03	99	165	0	301 17	25 1	288 7	21 1	0	0	0	0	13 5	4 1	-20	83
03-04	99	165	0	297 6	24 1	284 5	20 1	0	0	0	0	12 5	4 1	-19	84
04-05	99	165	0	291 13	24 1	279 3	20 1	0	0	0	0	13 5	3 1	-18	84
05-06	99	165	0	287 7	21 2	273 4	18 2	0	0	0	0	13 6	3 1	-18	85
06-07	99	165	0	285 8	15 3	272 5	13 3	0	0	0	0	13 6	2 1	-17	86
07-08	98	165	0	270 12	15 1	258 7	13 1	0	0	0	0	12 8	1 1	-16 1	86

Mt. Washington Data

08-09		99	165	0	249 20	12 1	236 12	12 1	0	0	0	0	13 10	0 1	-14	87 1
09-10		98	165	0	247 13	12 1	233 5	12 2	0	0	0	0	14 12	0 1	-13	88
10-11		98	165	0	243 16	12 1	228 6	12 2	0	0	0	0	15 12	0 1	-13	89
11-12		98	165	0	231 24	12 2	212 30	11 3	0	0	0	0	19 20	1 2	-13	89
12-13		98	165	0	223 89	13 3	204 25	11 4	0	0	0	0	19 34	2 2	-13	90
13-14	(0.1)	98	165	0	198 58	14 3	176 40	12 4	0	0	0	0	22 36	2 2	-13	89
14-15		98	165	0	187 21	20 2	167 13	18 2	0	0	0	0	21 16	2 1	-14	90
15-16		83 14	164	0	185 17	21 3	164 7	20 3	0	0	0	0	21 13	2 1	-14	89
16-17		70	164	0	179 15	23 2	161 6	21 3	0	0	0	0	18 12	2 1	-14	89
17-18		71 1	164	0	174 25	20 2	158 7	19 2	0	0	0	0	16 10	1 1	-14	89
18-19		78 2	164	0	161 12	21 2	147 7	20 2	0	0	0	0	14 9	1 1	-14	89
19-20	(0.6)	86 4	164	0	157 15	26 2	143 5	25 2	0	0	0	0	14 9	2 1	-15	89
20-21	(15.7)	98 1	164	0	150 13	28 3	135 10	26 3	0	0	0	0	15 10	2 3	-15	88
21-22	(25.4)	98	164	0	147 12	26 2	134 14	30 12	0	0	0	0	13 16	-4 12	-15	88
22-23	(3.6)	98	164	0	139 12	24 3	128 8	21 3	0	0	0	0	11 10	3 1	-15	88
23-24	(1.5)	98	164	0	128 27	22 2	118 8	18 2	0	0	0	0	10 9	4 2	-15	88

Mt. Washington Data

DATE = 0307

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2351 070451Z 13021KT 1/16SM -SN FZFG VV000 M17/M17 RMK  LGT ICG
0053 070553Z 11017KT 1/16SM -SN FZFG VV000 M18/M18 RMK  LGT ICG
0159 070659Z 07021KT 1/16SM -SN FZFG VV000 M18/M18 RMK  LGT ICG
0256 070756Z 07030G36KT 1/16SM -SN FZFG VV000 M18/M18 RMK  LGT ICG
0358 070858Z 06024G32KT 1/16SM -SN FZFG VV000 M16/M16 RMK  LGT ICG
0458 070958Z 06032G37KT 1/16SM -SN FZFG VV000 M18/M18 RMK  LGT ICG
0551 071051Z 06031G37KT 1/16SM -SN FZFG VV000 M17/M17 RMK  LGT ICG
0657 071157Z 06036G41KT 1/16SM -SN FZFG VV000 M19/M19 RMK  LGT ICG
0744 071244Z 04045G52KT 1/16SM -SN FZFG VV000 M19/M19 RMK  LGT ICG
0855 071355Z 04037G52KT 1/16SM -SN FZFG VV000 M19/M19 RMK  LGT ICG
0955 071455Z 04026G36KT 1/16SM -SN FZFG VV000 M21/M21 RMK  LGT ICG
1054 071554Z 33041G51KT 1/16SM -SN FZFG VV000 M21/M21 RMK  LGT ICG
1157 071657Z 33042G61KT 1/16SM DRSN FZFG VV000 M22/M22 RMK  LGT ICG
1250 071750Z 33050G63KT 1/16SM DRSN FZFG VV000 M22/M22 RMK  SNE1645 LGT ICG
1354 071854Z 32049G61KT 1/8SM DRSN FZFG VV000 M22/M22 RMK  LGT ICG
1452 071952Z 32048G59KT 1/8SM DRSN FZFG VV000 M23/M23 RMK  LGT ICG
1553 072053Z 31050G70KT 1/8SM DRSN FZFG BKN000 M24/M24 RMK  FZFG BKN000 LGT ICG
1658 072158Z 31050G62KT 1/8SM DRSN FZFG SCT000 BKN080 M25/M25 RMK  FZFG SCT000 LGT ICG
1759 072259Z 31044G60KT 1/8SM DRSN FZFG VV000 M26/M26 RMK  LGT ICG
1855 072355Z 32049G56KT 1/16SM DRSN FZFG VV000 M26/M26 RMK  LGT ICG
1952 080052Z 32053G63KT 1/16SM BLSN FZFG VV000 M27/M27 RMK  LGT ICG
2056 080156Z 30053G59KT 1/16SM BLSN FZFG VV000 M27/M27 RMK  LGT ICG
2159 080259Z 33057G66KT 1/8SM BLSN FZFG VV000 M26/M26 RMK  FZFG BKN000 LGT ICG
2257 080357Z 30060G70KT 65SM BLSN FEW/// SKC M24/M26 RMK  TPS LWR FEW060 INTMT FZFG LGT ICG
2350 080450Z 30061G70KT 65SM DRSN FEW/// SKC M23/M26 RMK  TPS LWR FEW050 INTMT FZFG LGT ICG
0055 080555Z 33060G66KT 65SM DRSN FEW/// SKC M23/M31 RMK  TPS LWR FEW050
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00-01		98	164	0	108 19	20 2	101 13	17 2	0	0	0	0	7 7	3 1	-16	88
01-02		98	164	0	093 13	20 2	085 12	17 2	0	0	0	0	8 6	3 1	-16	87
02-03		98	164	0	078 10	18 2	066 7	17 2	0	0	0	0	12 8	1 2	-16	87
03-04		98	164	0	079 10	16 2	066 6	15 2	0	0	0	0	12 8	1 2	-17	87
04-05	(0.1)	98	164	0	071 20	15 2	060 9	15 3	0	0	0	0	11 11	0 2	-17	86
05-06	(0.0)	98	164	0	067 12	15 2	058 9	15 2	0	0	0	0	9 11	0 2	-17	87
06-07		98	164	0	051 14	12 2	037 14	14 2	0	0	0	0	14 10	-1 1	-17	86
07-08	(0.2)	98	164	0	028 13	22 4	015 9	20 3	0	0	0	0	13 9	1 1	-18	86

Mt. Washington Data

08-09		(0.2)	98	164	0	023	24	011	22	0	0	0	0	12	2	-17	86
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09-10			98	164	0	358	16	345	14	0	0	0	0	13	3	-17	86
						42	4	33	4					17	1		
10-11		(2.2)	98	164	0	357	27	345	23	0	0	0	0	12	4	-18	86
						14	6	14	5					12	2		
11-12		(16.2)	98	164	0	353	32	337	25	0	0	0	0	16	7	-18	85
						16	6	12	4					15	3		
12-13	263	(65.6)	98	164	0	350	38	325	27	0	0	0	0	25	10	-19	85
						63	5	8	6					18	5		
13-14	183	(84.9)	98	164	0	345	38	322	32	0	0	0	0	22	5	-19	84
						51	5	6	14					19	14		
14-15	293	(65.2)	98	164	0	336	39	319	38	0	0	0	0	17	0	-19	84
			1			14	4	11	31					15	31		
15-16	228	(80.0)	97	164	0	330	42	322	55	0	0	0	0	9	-14	-20	84
			2			9	4	23	67					23	67		
16-17		(48.2)	98	164	0	329	39	315	43	0	0	0	0	16	-4	-21	83
						26	4	13	44					16	44		
17-18	275	(74.9)	98	164	0	331	41	315	77	0	0	0	0	14	-36	-22	83
						11	4	47	90					44	90		
18-19	147	(86.3)	98	164	0	326	44	336	79	0	0	0	0	15	-37	-23	82
						15	4	120	72					31	72		
19-20	64	(96.8)	98	164	0	333	46	321	99	0	0	0	0	9	-53	-24	81
						12	4	47	**					46	99		
20-21	77	(95.7)	98	164	0	341	46	028	76	0	0	0	0	41	-30	-24	80
							3	124	**					45	114		
21-22	138	(91.0)	98	164	0	341	47	313	68	0	0	0	0	27	-19	-25	79
							4	29	80					29	79		
22-23	220	(82.0)	98	164	0	341	48	314	45	0	0	0	0	27	3	-25	79
							4	11	74					9	74		
23-24	161	(87.4)	98	164	0	341	55	314	53	0	0	0	0	26	4	-25	79
						9	5	31	38					25	39		

Mt. Washington Data

DATE = 0308

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2350 080450Z 30061G70KT 65SM DRSN FEW/// SKC M23/M26 RMK  TPS LWR FEW050 INTMT FZFG LGT ICG
0055 080555Z 33060G66KT 65SM DRSN FEW/// SKC M23/M31 RMK  TPS LWR FEW050
0257 080757Z 33060G70KT 65SM DRSB BKN/// SKC M24/M27 RMK  TPS LWR BKN055
0359 080859Z 33056G66KT 65SM DRSN BKN/// SKC M25/M27 RMK  TPS LWR BKN055
0459 080959Z 33066G83KT 65SM DRSN BKN/// SKC M24/M27 RMK  TPS LWR BKN055
0850 081350Z 33073G84KT 70SM DRSN SCT/// SKC M23/M26 RMK  TPS LWR SCT050
0952 081452Z 33075G89KT 70SM DRSN SCT/// SKC M22/M27 RMK  TPS LWR SCT040
1058 081558Z 32072G89KT 70SM DRSN SCT/// SKC M21/M31 RMK  TPS LWR SCT050
1159 081659Z 32072G81KT 70SM DRSN FEW/// SKC M22/M30 RMK  TPS LWR FEW050
1253 081753Z 31073G85KT 80SM SKC M21/M29
1354 081854Z 31076G84KT 80SM SKC M21/M27
1454 081954Z 31071G83KT 80SM SKC M22/M26
1559 082059Z 31076G83KT 60SM FEW/// FEW001 M22/M26 RMK  TPS LWR FEW055
1657 082157Z 31070G81KT 50SM BCFG FEW/// SKC M23/M26 RMK  TPS LWR FEW055 FZFG INTMT
1757 082257Z 31076G91KT 45SM BCFG SCT/// SCT005 M22/M26 RMK  TPS LWR SCT055 FZFG INTMT
1850 082350Z 32070G83KT 40SM BCFG SCT/// SCT005 M22/M26 RMK  TPS LWR SCT055 FZFG INTMT
1958 090058Z 32066G77KT 65SM SKC M20/M33
2059 090159Z 33066G75KT 65SM SKC M20/M28
2159 090259Z 33066G76KT 65SM SKC M20/M36
2256 090356Z 33060G70KT 65SM FEW/// SKC M19/M37 RMK  TPS LWR FEW050
2354 090454Z 33055G63KT 65SM FEW/// SKC M18/M25 RMK  TPS LWR FEW050
0055 090555Z 33049G56KT 65SM FEW/// SKC M18/M31 RMK  TPS LWR FEW055
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00-01	(50.6)	98	164	0	344	54	325	39	0	0	0	0	20	15	-25	78
					17	4	14	5					20	4		
01-02	(15.7)	98	164	0	349	48	320	37	0	0	0	0	29	12	-24	79
					23	5	6	9					15	8		
02-03	(23.5)	99	164	0	343	54	319	44	0	0	0	0	24	9	-24	79
					15	5	8	8					16	8		
03-04	(26.9)	99	164	0	344	57	322	46	0	0	0	0	22	11	-24	79
					15	4	8	7					15	6		
04-05	(11.7)	99	164	0	344	57	325	45	0	0	0	0	19	12	-25	79
					15	5	7	5					14	3		
05-06	(21.4)	98	164	0	342	64	319	49	0	0	0	0	22	16	-25	79
		1			18	4	4	4					14	2		
06-07	(29.7)	83	164	0	342	66	320	50	0	0	0	0	22	16	-24	79
		9			17	4	3	4					13	3		
07-08	(23.9)	44	164	0	345	66	325	52	0	0	0	0	20	14	-24	79
		10			16	5	5	5					15	2		
08-09	(17.9)	28	164	0	347	65	327	53	0	0	0	0	20	12	-23	79
		1			15	5	5	5					15	2		

Mt. Washington Data

09-10	(11.7)	25 1	164	0	346 21	65 5	330 16	54 5	0	0	0	0	17 17	11 2	-23	80
10-11	(10.0)	24	164	0	347 15	66 6	328 5	54 5	0	0	0	0	19 14	12 2	-22	80
11-12	(2.9)	23	164	0	345 18	63 6	327 5	52 5	0	0	0	0	19 15	11 2	-21	81
12-13	(0.7)	24	164	0	334 18	63 4	318 4	52 4	0	0	0	0	16 10	11 2	-21	82
13-14	(1.4)	24 1	164	0	333 14	65 5	317 6	53 4	0	0	0	0	15 12	11 2	-20	82
14-15	(0.6)	23	164	0	334 17	63 4	319 4	52 4	0	0	0	0	16 11	11 2	-20	82
15-16	(1.4)	24 1	164	0	332 13	63 4	317 4	52 4	0	0	0	0	15 10	11 2	-20	82
16-17	(1.3)	28 2	164	0	326 11	63 4	312 4	52 4	0	0	0	0	14 10	11 2	-20	82
17-18	(4.1)	40 2	164	0	327 10	65 4	313 4	53 4	0	0	0	0	14 9	12 2	-21	81
18-19	(2.4)	48 2	164	0	334 11	65 4	319 9	53 4	0	0	0	0	15 10	12 2	-22	81
19-20	(0.8)	37 10	164	0	341 20	62 4	322 6	51 4	0	0	0	0	19 13	11 2	-22	81
20-21	(0.3)	27	164	0	342 16	56 4	324 4	47 4	0	0	0	0	19 13	10 2	-22	81
21-22	(0.3)	26	164	0	345 43	58 4	325 3	48 4	0	0	0	0	20 16	10 2	-21	81
22-23	(0.4)	25	164	0	343 33	57 4	324 15	47 4	0	0	0	0	20 15	10 2	-21	82
23-24	(0.1)	23 1	164	0	349 16	53 3	331 6	44 3	0	0	0	0	18 13	9 2	-21	82

Mt. Washington Data

DATE = 0309

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2354 090454Z 33055G63KT 65SM FEW/// SKC M18/M25 RMK  TPS LWR FEW050
0055 090555Z 33049G56KT 65SM FEW/// SKC M18/M31 RMK  TPS LWR FEW055
0155 090655Z 33056G63KT 65SM FEW/// SKC M19/M32 RMK  TPS LWR FEW055
0255 090755Z 33056G64KT 65SM FEW/// SKC M19/M27 RMK  TPS LWR FEW050
0459 090959Z 32062G69KT 65SM FEW/// SKC M18/M36 RMK  TPS LWR FEW050
0550 091050Z 32063G75KT 65SM FEW/// SKC M18/M32 RMK  TPS LWR FEW045
0651 091151Z 32059G66KT 70SM FEW/// SKC M19/M28 RMK  TPS LWR FEW045
0744 091244Z 33057G68KT 70SM FEW/// SKC M19/M28 RMK  TPS LWR FEW045
0850 091350Z 32052G61KT 75SM FEW/// SKC M18/M27 RMK  TPS LWR FEW045
0950 091450Z 32048G62KT 75SM FEW005 M16/M27
1053 091553Z 32042G50KT 80SM FEW090 M16/M27
1155 091655Z 32038G48KT 80SM FEW070 M15/M27
1253 091753Z 37031G44KT 80SM SKC M16/M25
1352 091852Z 32021G31KT 80SM SKC M15/M27
1458 091958Z 33030G38KT 80SM FEW030 M13/M24
1552 092052Z 34022G37KT 75SM FEW060 M13/M26
1657 092157Z 33012G32KT 70SM FEW140 M14/M26
1755 092255Z 34012KT 60SM SCT130 M13/M28
1857 092357Z 35017G23KT 55SM FEW130 M13/M29
1954 100054Z 34011KT 65SM FEW130 M16/M20
2058 100158Z 34006KT 65SM FEW130 M14/M22 RMK  AURBO
2155 100255Z 34006KT 65SM FEW130 M11/M31 RMK  AURBO
2259 100359Z 28004KT 65SM FEW130 M23/M32 RMK  AURBO
2359 100459Z 25009KT 65SM FEW150 M25/M40 RMK  AURBO
0056 100556Z 28011KT 65SM FEW180 M11/M28 RMK  AURBO
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00-01	(0.1)	23	164	0	343	50	325	42	0	0	0	0	18	8	-20	82
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01-02	(0.0)	24	164	0	348	50	329	42	0	0	0	0	18	8	-20	83
		1			15	4	4	4					13	1		
02-03		24	164	0	348	49	329	41	0	0	0	0	18	8	-20	83
					25	4	10	4					13	1		
03-04	(0.1)	25	164	0	348	49	329	41	0	0	0	0	19	8	-20	83
					15	4	6	4					14	2		
04-05		24	164	0	348	51	330	43	0	0	0	0	19	8	-20	83
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05-06	(0.0)	23	164	0	347	55	328	46	0	0	0	0	19	9	-20	83
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06-07	(0.1)	23	164	0	347	55	328	46	0	0	0	0	19	9	-20	83
					18	4	3	3					13	1		
07-08		22	164	0	348	47	331	39	0	0	0	0	17	7	-20	83
		1			14	5	6	5					12	2		

Mt. Washington Data

08-09	(0.0)	21	164	0	349 32	45 4	333 7	38 4	0	0	0	0	16 13	7 2	-19	83
09-10		20	164	0	350 13	41 5	332 6	35 4	0	0	0	0	18 13	6 2	-19	83
10-11		19	164	0	001 21	23 7	347 21	20 6	0	0	0	0	13 15	3 2	-18	84
11-12	(0.0)	19	164	0	352 14	33 5	338 13	28 5	0	0	0	0	14 13	5 2	-17	85
12-13		19	164	0	337 20	28 5	323 14	24 4	0	0	0	0	15 14	4 2	-16	85
13-14		18	164	0	326 25	20 5	313 20	17 4	0	0	0	0	13 15	3 2	-15	86
14-15		18	164	0	330 48	19 4	315 25	16 4	0	0	0	0	13 15	3 2	-14	87
15-16		18	164	0	324 31	19 5	311 22	16 5	0	0	0	0	13 18	3 2	-13	87
16-17		18	164	0	330 39	14 4	315 34	11 4	0	0	0	0	14 22	2 2	-13	88
17-18		19	164	0	356 41	11 4	343 43	9 3	0	0	0	0	13 15	1 1	-13	89
18-19		19	164	0	005 47	7 3	354 44	7 3	0	0	0	0	13 23	1 1	-13	90
19-20		20	164	0	357 29	8 3	345 41	7 2	0	0	0	0	13 20	1 1	-14	89
20-21		20	164	0	030 45	6 2	349 70	6 2	0	0	0	0	12 12	0 1	-15	89
21-22		20	164	0	082 86	4 2	081 92	4 2	0	0	0	0	22 35	-1 1	-16	88
22-23		19	164	0	246 38	5 2	225 32	5 2	0	0	0	0	20 35	0 1	-16	87
23-24		19	164	0	258 36	8 1	247 35	8 1	0	0	0	0	11 4	0 1	-16	87

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2359 100459Z 25009KT 65SM FEW150 M25/M40 RMK  AURBO
0056 100556Z 28011KT 65SM FEW180 M11/M28 RMK  AURBO
0159 100659Z 29007KT 65SM BKN180 M12/M37 RMK  AURBO
0259 100759Z 34006KT 65SM BKN180 M24/M32 RMK  AURBO
0359 100859Z 32028KT 65SM BKN180 M13/M24
0459 100959Z 32017KT 65SM BKN180 M11/M29
0551 101051Z 32022KT 65SM SCT120 M11/M29
0650 101150Z 33026KT 65SM BKN120 M11/M31
0743 101243Z 33022KT 65SM BKN120 M11/M29
0858 101358Z 33017KT 65SM FEW/// BKN120 M10/M25 RMK  TPS LWR FEW040 SW ACSL
0954 101454Z 34013KT 65SM BKN120 M11/M20
1157 101657Z 34013KT 65SM SCT140 M09/M22
1242 101742Z 33011KT 55SM BKN180 M10/M22
1354 101854Z 01024KT BKN180 M09/M22
1450 101950Z 36013KT 40SM FEW060 BKN180 M08/M22 RMK  HZ DSNT ALQDS
1555 102055Z 35019KT 30SM FEW/// SCT060 BKN180 RMK  TPS LWR FEW040 HZ DSNT ALQDS
1659 102159Z 02019KT 25SM FEW/// BKN080 M09/M19 RMK  TPS LWR FEW040 HZ DSNT ALQDS
1759 102259Z 02017KT 30SM FEW/// FEW001 OVC040 M11/M11 RMK  TPS LWR FEW045 HZ DSNT ALQDS
1859 102359Z 01017KT 25SM FEW/// OVC030 M10/M12 RMK  TPS LWR FEW040
1959 110059Z 02018KT 30SM FEW/// OVC030 M09/M11 RMK  TPS LWR FEW040
2051 110151Z 01020KT 1/8SM FZFG BKN000 OVC030 M10/M10 RMK  FZFG BKN000 VRY LGT ICG
2156 110256Z 01020KT 0SM FZFG VV000 M11/M11 RMK  LGT ICG
2259 110359Z 01022KT 0SM FZFG VV000 M10/M10 RMK  LGT ICG
2359 110459Z 01030G37KT 0SM FZFG VV000 M08/M08 RMK  LGT ICG
0051 110551Z 36024G30KT 0SM FZFG VV000 M09/M09 RMK  LGT ICG
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00-01		19	164	0	284	10	277	8	0	0	0	0	8	1	-16	87
					13	1	11	1					2			
01-02		19	164	0	286	6	277	5	0	0	0	0	9	1	-15	87
					13	2	12	2					6	1		
02-03		19	164	0	339	7	332	7	0	0	0	0	12	1	-15	87
					107	3	98	3					29	2		
03-04		19	164	0	351	11	350	9	0	0	0	0	8	1	-15	87
					106	6	134	5					20	1		
04-05		19	164	0	335	15	322	13	0	0	0	0	14	2	-15	88
					30	3	23	3					13	1		
05-06		19	164	0	351	19	335	17	0	0	0	0	16	3	-15	87
					17	3	12	3					14	1		
06-07		18	164	0	348	23	330	19	0	0	0	0	18	3	-14	87
					16	3	11	3					13	1		
07-08	243	18	164	0	357	16	344	14	0	0	0	0	13	2	-14	87
					17	4	15	4					12	1		

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08-09	16 1	164	0	006 14	12 2	356 9	11 2	0	0	0	0	10 8	1 1	-13	88
09-10	15	164	0	009 10	8 1	359 7	8 1	0	0	0	0	11 7	1 1	-12	88
10-11	16	164	0	017 11	10 2	005 6	10 2	0	0	0	0	12 8	1 1	-11	89
11-12	15	164	0	010 14	5 1	358 11	5 1	0	0	0	0	12 11	0 1	-10	90
12-13	16	164	0	011 25	6 2	356 24	6 2	0	0	0	0	11 20	1 1	-9	90
13-14	16	164	0	026 22	14 2	011 8	14 3	0	0	0	0	15 10	1 1	-8	92
14-15	16	164	0	018 14	9 3	006 12	9 3	0	0	0	0	12 10	1 1	-8	92
15-16	16 1	164	0	015 28	9 4	006 50	9 4	0	0	0	0	12 17	1 1	-8	92
16-17	18	164	0	022 13	14 3	009 8	13 3	0	0	0	0	13 10	1 1	-9	93
17-18	19	164	0	039 16	12 2	025 10	11 3	0	0	0	0	15 10	0 1	-10	92
18-19	19	164	0	040 15	11 2	025 8	11 2	0	0	0	0	15 9	0 1	-10	92
19-20	19	164	0	038 24	12 2	023 8	11 3	0	0	0	0	15 10	1 1	-11	91
20-21	20 2	164	0	046 24	13 3	031 10	12 3	0	0	0	0	15 9	0 1	-10	92
21-22	37 7	164	0	039 15	13 3	024 13	12 3	0	0	0	0	15 10	1 1	-9	92
22-23	56 5	164	0	036 13	14 3	022 8	13 3	0	0	0	0	14 9	1 1	-10	93
23-24	66 4	164	0	034 16	17 3	021 18	16 4	0	0	0	0	13 11	1 2	-10	92

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DATE = 0311

2359 110459Z 01030G37KT 0SM **FZFG** VV000 M08/M08 RMK LGT **ICG**
0051 110551Z 36024G30KT 0SM **FZFG** VV000 M09/M09 RMK LGT **ICG**
0159 110659Z 01021G27KT 0SM **FZFG** VV000 M09/M09 RMK LGT **ICG**
0255 110755Z 34023G27KT 0SM **FZFG** VV000 M09/M09 RMK LGT **ICG**
0358 110858Z 01019G24KT 0SM **-SN FZFG** VV000 M08/M08 RMK **SNB**40 LGT **ICG**
0458 110958Z 02021KT 1/16SM **-SN FZFG** VV000 M07/M07 RMK LGT **ICG**
0554 111054Z 01019KT 1/16SM **FZFG** VV000 M08/M08 RMK **SNE**15 LGT **ICG**
0653 111153Z 02024G27KT 1/16SM **-SN FZFG** VV000 M08/M08 RMK **SNB**40 LGT **ICG**
0748 111248Z 02020KT 1/16SM **-SN FZFG** VV000 M08/M08 RMK LGT **ICG**
0851 111351Z 02019KT 0SM **-SN FZFG** VV000 M08/M08 RMK LGT **ICG**
0952 111452Z 02021KT 0SM **-SN FZFG** VV000 M07/M07 RMK LGT **ICG**
1059 111559Z 02017KT 1/16SM **-SN FZFG** VV000 M06/M06 RMK LGT **ICG**
1149 111649Z 02021KT 1/8SM **-SN FZFG** VV000 M06/M06 RMK LGT **ICG**
1250 111750Z 02025KT 1/8SM **-SN FZFG** VV000 M04/M04 RMK LGT **ICG** SUN DMLY VSBL
1354 111854Z 02024KT 1/8SM **FZDZ FZFG** VV000 M04/M04 RMK **SNEFZDZ**B30 LGT G **ICG**
1453 111953Z 02026KT 1/16SM **FZDZ FZFG** VV000 M04/M04 RMK LGT **GICG**
1549 112049Z 02023KT 1/16SM **FZFG** VV000 M06/M06 RMK FZFDE00
1658 112158Z 02026KT 1/4SM **FZFG** VV000 M06/M06 RMK LGT **ICG**
1759 112259Z 02024KT 1/16SM **FZFG** VV000 M07/M07 RMK LGT **ICG**
1855 112355Z 02021G28KT 1/16SM **DRSN FZFG** VV000 M08/M08 RMK LGT **ICG**
1959 120059Z 36024G32KT 1/16SM **-SN FZFG** VV000 M09/M09 RMK **SNB**20 LGT **ICG**
2059 120159Z 36029G37KT 1/16SM **-SN FZFG** VV000 M09/M09 RMK LGT **ICG**
2156 120256Z 02036KT 1/16SM **-SN FZFG** VV000 M09/M09 RMK LGT **ICG**
2257 120357Z 31G37KT 1/16SM **FZFG** VV000 M07/M07 RMK **SNE**15 LGT **ICG**
2359 120459Z 02037G42KT 1/16SM **FZFG** VV000 M06/M06 RMK LGT **ICG**
0048 120548Z 02037G42KT 1/16SM **FZFG** VV000 M07/M07 RMK LGT **ICG**

00-01	72 3	164	0	033 16	15 3	020 11	14 4	0	0	0	0	13 12	1 1	-9	93
01-02	66 4	164	0	014 39	11 3	004 49	10 3	0	0	0	0	11 13	1 1	-8	94
02-03	61 3	164	0	017 21	11 2	007 15	10 2	0	0	0	0	10 10	1 1	-9	93
03-04	57 5	164	0	018 31	10 2	006 10	9 2	0	0	0	0	11 11	1 1	-9	93
04-05	49 1	164	0	032 32	11 3	018 20	11 3	0	0	0	0	13 10	0 1	-9	93
05-06	45 2	164	0	028 28	10 3	016 18	10 3	0	0	0	0	12 11	0 1	-8	93
06-07	65 27	164	0	043 13	13 2	029 10	14 3	0	0	0	0	14 10	0 1	-8	94
07-08	98	164	0	054 10	13 2	041 10	13 2	0	0	0	0	13 9	0 1	-7	94

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08-09		98	164	0	053 12 13 2	040 12 6 2	0	0	0	0	13 9	0 1	-7	94
09-10		98	164	0	058 10 9 1	048 10 8 1	0	0	0	0	10 8	0 1	-7	94
10-11		98	164	0	057 11 8 2	047 11 6 1	0	0	0	0	10 8	0 1	-6	94
11-12		98	164	0	059 10 8 1	050 10 9 1	0	0	0	0	9 6	0 1	-6	94
12-13		19 10	164	0	060 12 14 1	050 12 5 1	0	0	0	0	9 7	0 1	-5	95
13-14		87 22	164	0	060 13 8 1	050 13 11 2	0	0	0	0	10 7	0 1	-4	96
14-15		98	164	0	061 14 13 2	052 14 16 2	0	0	0	0	9 7	0 1	-3	97
15-16		98	164	0	053 11 17 2	042 11 19 2	0	0	0	0	11 7	0 1	-3	97
16-17		85 28	164	0	052 12 11 2	041 11 16 2	0	0	0	0	11 8	0 1	-4	97
17-18		30 41	164	0	053 13 10 2	042 12 10 2	0	0	0	0	11 8	0 1	-5	97
18-19		24 42	164	0	043 11 15 2	033 11 14 2	0	0	0	0	11 10	0 1	-6	96
19-20		82 27	164	0	020 14 25 3	012 13 18 3	0	0	0	0	9 10	1 1	-6	96
20-21		84 27	164	0	031 16 27 4	021 15 15 4	0	0	0	0	10 11	0 1	-7	95
21-22		54 36	164	0	042 15 19 3	031 16 18 3	0	0	0	0	11 9	0 1	-8	94
22-23		85 31	164	0	057 19 8 2	046 18 8 2	0	0	0	0	11 8	1 1	-8	94
23-24	(0.7)	79 34	164	0	065 18 10 2	054 18 9 2	0	0	0	0	10 7	1 1	-8	94

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2359 120459Z 02037G42KT 1/16SM **FZFG** VV000 M06/M06 RMK LGT **ICG**
0048 120548Z 02037G42KT 1/16SM **FZFG** VV000 M07/M07 RMK LGT **ICG**
0155 120655Z 02037KT 1/16SM **FZFG** VV000 M06/M06 RMK LGT **ICG**
0259 120759Z 02036G45KT 1/16SM **FZFG** VV000 M07/M07 RMK LGT **ICG**
0352 120852Z 02036G43KT 1/16SM **-SN FZFG** VV000 M08/M08 RMK **SNB**30 LGT **ICG**
0457 120957Z 02041G46KT 1/16SM **-SN FZFG** VV000 M08/M08 RMK LGT **ICG**
0554 121054Z 02046G53KT 1/16SM **FZFG** VV000 M06/M06 RMK **SNE**05 LGT **ICG**
0651 121151Z 02044G53KT 1/16SM **FZFG** VV000 M06/M06 RMK LGT **ICG**
0745 121245Z 02044G49KT 1/16SM **FZFG** VV000 M06/M06 RMK MOD **ICG**
0851 121351Z 02041G48KT 1/16SM **FZFG** VV000 M06/M06 RMK LGT **ICG**
0955 121455Z 02041G45KT 1/16SM **FZDZ FZFG** VV000 M06/M06 RMK FZFDB25 LGT **ICG**
1058 121558Z 02032G37KT 1/16SM **FZFG** VV000 M06/M06 RMK **FZDZ**E10 LGT **ICG**
1158 121658Z 07035G38KT 1/16SM **-SN FZFG** M07/M07 RMK **SNB**45 LGT **ICG**
1251 121751Z 07035G41KT 1/16SM **-SN FZFG** VV000 M07/M07 RMK LGT **ICG**
1351 121851Z 07027KT 1/16SM **FZDZ FZFG** VV000 M08/M08 RMK **SNEFZDZ**B30 LGT **GICG**
1451 121951Z 07030KT 1/16SM **FZFG** VV000 M08/M08 RMK FZFDE30 LGT **GICG**
1553 122053Z 02032G38KT 1/16SM **FZFG** VV000 M09/M09 RMK LGT **ICG**
1655 122155Z 03032G41KT 1/16SM **-SN FZFG** VV000 M09/M09 RMK **SNB**25 LGT **ICG**
1855 122355Z 05035G44KT 1/16SM **-SN FZFG** VV000 M10/M10 RMK LGT **ICG**
1959 130059Z 05029G37KT 1/16SM **-SN FZFG** VV000 M09/M09 RMK LGT **ICG**
2057 130157Z 05030G37KT 1/16SM **-SN FZFG** VV000 M09/M09 RMK LGT **ICG**
2156 130256Z 06028G33KT 1/16SM **-SN FZFG** VV000 M09/M09 RMK LGT **ICG**
2359 130459Z 05025KT 1/16SM **-SN FZFG** VV000 M10/M10 RMK LGT **ICG**
0055 130555Z 06024KT 1/16SM **-SN FZFG** VV000 M09/M09 RMK LGT **ICG**

00-01	(38.8)	99	164	0	066	20	057	19	0	0	0	0	9	1	-7	94
					8	2	10	2					8	2		
01-02	(7.0)	92	164	0	065	19	056	18	0	0	0	0	9	1	-6	94
		15			13	2	6	2					8	1		
02-03	(0.2)	90	164	0	056	18	047	16	0	0	0	0	10	2	-6	95
		16			25	3	20	3					9	2		
03-04	(2.1)	96	164	0	056	19	046	16	0	0	0	0	9	3	-6	95
		8			12	3	8	3					9	2		
04-05	(10.0)	98	164	0	063	20	054	18	0	0	0	0	9	3	-7	95
		4			18	2	6	2					10	2		
05-06	(0.7)	99	164	0	071	23	057	20	0	0	0	0	13	3	-7	95
					11	3	8	2					7	2		
06-07	(0.3)	99	164	0	076	25	061	21	0	0	0	0	14	5	-7	94
					9	2	4	3					8	2		
07-08	(0.9)	99	164	0	074	27	063	23	0	0	0	0	11	3	-6	95
					8	2	4	2					8	2		
08-09	(8.4)	99	164	0	073	25	061	20	0	0	0	0	12	5	-6	95

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					8	2	4	2					7	1		
09-10	(3.2)	98	164	0	070	22	058	17	0	0	0	0	12	5	-6	95
					8	2	8	2					8	1		
10-11		98	164	0	070	20	060	20	0	0	0	0	9	0	-5	95
					18	2	6	2					8	1		
11-12		98	164	0	071	18	061	18	0	0	0	0	10	0	-5	95
					8	2	5	2					7	1		
12-13		98	164	0	066	17	057	17	0	0	0	0	9	0	-5	96
					11	2	7	2					7	1		
13-14		98	164	0	052	13	042	14	0	0	0	0	10	-1	-5	96
					29	2	22	2					8	1		
14-15	(2.9)	98	164	0	036	16	025	15	0	0	0	0	11	0	-5	96
					11	2	6	2					7	2		
15-16	(21.4)	98	164	0	022	17	012	18	0	0	0	0	10	-1	-5	96
					13	2	9	4					11	4		
16-17	(40.3)	99	164	0	029	17	019	16	0	0	0	0	11	2	-6	96
					14	2	9	4					9	3		
17-18	(13.8)	99	164	0	034	18	023	16	0	0	0	0	12	1	-6	96
					20	3	13	5					10	4		
18-19	(1.6)	99	164	0	039	17	028	15	0	0	0	0	11	1	-7	95
					24	3	17	4					11	2		
19-20	(6.8)	99	164	0	034	15	024	13	0	0	0	0	10	2	-8	95
					13	3	11	3					10	2		
20-21	(4.5)	99	164	0	031	15	022	13	0	0	0	0	9	2	-8	94
					27	3	13	3					12	2		
21-22	(2.9)	99	164	0	038	15	027	14	0	0	0	0	11	1	-8	94
					15	3	9	3					10	2		
22-23	(0.0)	99	164	0	045	13	031	13	0	0	0	0	13	0	-8	94
					10	2	4	2					9	2		
23-24	(0.1)	99	164	0	030	15	020	12	0	0	0	0	10	3	-8	94
					10	2	10	3					8	3		

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2359 130459Z 05025KT 1/16SM **-SN FZFG** VV000 M10/M10 RMK LGT **ICG**
0055 130555Z 06024KT 1/16SM **-SN FZFG** VV000 M09/M09 RMK LGT **ICG**
0159 130659Z 06023KT 1/16SM **-SN FZFG** VV000 M09/M09 RMK LGT **ICG**
0259 130759Z 06017KT 1/16SM **-SN FZFG** VV000 M09/M09 RMK LGT **ICG**
0359 130859Z 06017KT 1/16SM **FZFG** VV000 M08/M08 RMK **SNE**05 LGT **ICG**
0454 130954Z 02008KT 1/16SM **FZFG** VV000 M08/M08 RMK LGT **ICG**
0558 131058Z 02009KT 1/16SM **FZFG** VV000 M08/M08 RMK LGT **ICG**
0650 131150Z 34010KT 0SM **FZFG** VV000 M09/M09 RMK LGT **ICG**
0749 131249Z 34012G27KT 1/16SM **FZFG** BKN000 BKN060 M09/M09 RMK LGT **ICG**
0856 131356Z 31017G29KT 10SM BKN000 BKN040 M07/M08 RMK INTMT **FZFG**
0950 131450Z 34010KT 1/16SM **FZFG** VV000 M06/M06 RMK **FZFG** INTMT LGT **ICG**
1050 131550Z 34023KT 1/16SM **FZFG** BKN000 OVC020 M08/M08 RMK **FZFG** BKN000 VRY LGT **ICG**
1154 131654Z 35030G40KT 40SM BKN/// FEW001 BKN060 M07/M09 RMK TPS LWR BKN040
1255 131755Z 35024G42KT 60SM OVC/// FEW002 SCT040 M07/M09 RMK TPS LWR OVC050 ACSL W
1359 131859Z 32021G37KT 60SM OVC/// FEW002 FEW006 SCT030 M08/M10 RMK TPS LWR OVC045 ACSL ALQDS
1457 131957Z 34017KT 60SM OVC/// FEW000 SCT050 M09/M11 RMK TPS LWR OVC045 INTMT **FZFG** ACSL ALQDS
1552 132052Z 34021G30KT 1/16SM **FZFG** BKN000 SCT040 M10/M10 RMK **FZFG** BKN000 **FZFG** INTMT LGT **ICG**
1659 132159Z 35022G30KT 1/8SM **FZFG** BKN000 M10/M10 RMK **FZFG** BKN000 **FZFG** INTMT LGT **ICG**
1752 132252Z 33018G37KT 1/8SM **FZFG** BKN000 BKN040 M11/M11 RMK **FZFG** BKN000 **FZFG** INTMT LGT **ICG**
1848 132348Z 33036G48KT 1/16SM **FZFG** VV000 M11/M11 RMK LGT **ICG**
1959 140059Z 34032G42KT 1/16SM **FZFG** VV000 M11/M11 RMK LGT **ICG**
2059 140159Z 34033KT 1/16SM **FZFG** VV000 M11/M11 RMK LGT **ICG**
2159 140259Z 34029G36KT 1/16SM **FZFG** VV000 M11/M11 RMK LGT **ICG**
2259 140359Z 34016KT 1/16SM **FZFG** VV000 M11/M11 RMK LGT **ICG**
2359 140459Z 02013KT 1/16SM **FZFG** VV000 M11/M11 RMK LGT **ICG**
0054 140554Z 34010KT 1/16SM **FZFG** VV000 M11/M11 RMK LGT **ICG**

00-01	99	164	0	035	13	024	14	0	0	0	0	12	-1	-8	94
				39	2	28	3					7	2		
01-02	99	164	0	052	12	039	13	0	0	0	0	13	-1	-8	93
				22	2	16	2					10	2		
02-03	99	164	0	054	10	042	12	0	0	0	0	12	-2	-8	93
				12	2	8	2					9	1		
03-04	99	164	0	050	8	039	10	0	0	0	0	11	-2	-8	93
				12	2	9	2					8	1		
04-05	99	164	0	014	7	007	7	0	0	0	0	7	-1	-8	93
				32	2	28	2					10	1		
05-06	99	164	0	355	7	347	7	0	0	0	0	8	-1	-8	94
				21	2	19	2					13	1		
06-07	99	164	0	299	5	290	5	0	0	0	0	7	0	-8	94
				67	2	65	2					25	1		
07-08	99	164	0	331	10	321	11	0	0	0	0	10	-2	-8	94
				51	3	45	4					13	1		

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08-09			98	164	0	328 25	14 4	317 35	16 4	0	0	0	0	10 12	-2 2	-7	94
09-10			98	164	0	334 33	12 4	323 49	13 5	0	0	0	0	10 12	-1 2	-7	94
10-11			98	164	0	183 186	15 6	357 59	15 6	0	0	0	0	8 16	0 1	-6	94
11-12			83 29	164	0	004 16	20 3	356 11	19 3	0	0	0	0	8 12	1 1	-6	94
12-13			18 6	164	0	360 19	17 5	350 24	17 4	0	0	0	0	10 13	1 1	-5	95
13-14			17 13	164	0	350 27	16 4	339 24	16 4	0	0	0	0	10 19	0 1	-4	95
14-15			69 40	164	0	341 23	14 5	331 17	14 5	0	0	0	0	10 15	0 2	-3	96
15-16			98	164	0	348 19	13 3	338 15	12 4	0	0	0	0	10 15	0 1	-3	96
16-17			98	164	0	355 20	14 3	349 15	14 3	0	0	0	0	6 14	0 1	-3	97
17-18			98	164	0	353 25	14 4	344 17	14 5	0	0	0	0	9 19	0 2	-4	98
18-19			98	164	0	352 22	20 6	343 18	20 6	0	0	0	0	9 16	1 2	-6	97
19-20		(0.0)	98	164	0	356 15	24 3	346 6	24 3	0	0	0	0	10 11	1 1	-7	96
20-21		(10.7)	98	164	0	006 15	22 3	357 9	20 3	0	0	0	0	9 10	2 2	-8	95
21-22	281	(67.2)	98	164	0	013 11	19 3	003 18	17 4	0	0	0	0	9 11	3 3	-9	94
22-23	275	(68.5)	98	164	0	017 12	13 3	011 22	11 4	0	0	0	0	6 20	1 4	-9	93
23-24		(6.3)	98	164	0	042 26	8 2	042 21	5 4	0	0	0	0	1 16	2 3	-9	93

Mt. Washington Data

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2359 140459Z 02013KT 1/16SM FZFG VV000 M11/M11 RMK  LGT ICG
0054 140554Z 34010KT 1/16SM FZFG VV000 M11/M11 RMK  LGT ICG
0157 140657Z 02007KT 1/16SM FZFG VV000 M11/M11 RMK  LGT ICG
0256 140756Z 02006KT 1/16SM FZFG VV000 M10/M10 RMK  LGT ICG
0353 140853Z 02006KT 1/16SM FZFG VV000 M10/M10 RMK  VRY LGT ICG
0457 140957Z 34005KT 1/16SM FZFG VV000 M10/M10 RMK  LGT ICG
0555 141055Z 34002KT 1/16SM FZFG VV000 M10/M10 RMK  VRY LGT ICG
0650 141150Z 34004KT 1/16SM FZFG VV000 M10/M10 RMK  VRY LGT ICG
0747 141247Z 34008KT 1/16SM FZFG VV000 M10/M10 RMK  VIS W-N 15 FZFG INTMT VRY LGT ICG
0846 141346Z 34007KT 30SM BKN/// OVC050 M09/M10 RMK  TPS LWR BKN040
0957 141457Z 34004KT 30SM BKN/// OVC050 M08/M09 RMK  TPS LWR BKN045 INTMT FZFG
1059 141559Z 34005KT 20SM BKN/// SCT005 OVC010 M08/M09 RMK  TPS LWR BKN045 INTMT FZFG
1157 141657Z 34005KT 40SM BKN/// SCT010 OVC020 M08/M10 RMK  TPS LWR BKN045
1251 141751Z 34005KT 30SM BKN/// OVC002 M08/M10 RMK  TPS LWR BKN045
1354 141854Z 34004KT 1/8SM -SN FZFG VV000 M06/M06 RMK  SNB10 FZFG INTMT LGT ICG
1457 141957Z 34004KT 0SM FZFG VV000 M07/M07 RMK  SNE40 LGT ICG
1551 142051Z 31003KT 0SM FZFG VV000 M08/M08 RMK  LGT ICG
1659 142159Z 19004KT 0SM FZFG VV000 M10/M10 RMK  VRY LGT ICG
1759 142259Z 19005KT 0SM FZFG VV000 M11/M11 RMK  VRY LGT ICG
1852 142352Z 14005KT 0SM FZFG VV000 M11/M11 RMK  VRY LGT ICG
1959 150059Z 18008KT 5SM -SN BKN/// OVC040 M09/M11 RMK  TPS LWR BKN035 PCPN VRY LGT
2058 150158Z 18007KT 2SM -SN BKN/// OVC005 M09/M11 RMK  TPS LWR BKN035 SNB1940
2154 150254Z 15009KT 1/16SM FZFG VV000 M11/M11 RMK  SNE25 LGT ICG
2258 150358Z 15008KT 1/8SM FZFG VV000 M10/M10 RMK  VRY LGT ICG
2352 150452Z 15007KT 1/16SM -SN FZFG VV000 M10/M10 RMK  SNB30 VRY LGT ICG
0049 150549Z 15008KT 1/16SM -SN FZFG VV000 M11/M11 RMK  LGT ICG
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00-01	98	164	0	048 10	6 1	053 32	3 1	116 9	-6 1	111 14	-3 1	-5 10	3 1	-9	93
01-02	16 36	164	0	046 7	4 1	048 20	3 1	118 7	-4 1	116 20	-3 1	-2 17	0 2	-10	93
02-03	0	164	0	049 21	1 1	042 47	2 1	115 20	-1 1	68 105	-2 1	7 44	-1 1	-10	93
03-04	20 13	164	0	056 8	2 1	049 16	3 1	108 8	-2 1	115 13	-3 1	7 10	-1 1	-10	92
04-05	26 1	164	0	029 46	3 1	014 64	3 1	53 130	-3 1	-3 150	-3 1	15 14	-1 1	-10	92
05-06	23 1	164	0	342 30	4 1	331 32	4 1	-55 149	-4 1	-104 122	-4 1	11 7	0 1	-9	93
06-07	21 1	164	0	335 18	3 1	321 15	4 1	-134 96	-3 1	-156 15	-4 1	14 10	-1 1	-9	93
07-08	18 1	164	0	032 61	3 1	024 46	4 1	90 97	-3 1	103 96	-4 1	8 9	-1 1	-9	92

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08-09	16	164	0	019	5	006	5	122	-5	62	-5	12	0	-9	92
				18	1	19	1	84	1	152	1	5	1		
09-10	15	164	0	352	1	335	2	-40	-1	-127	-2	17	-1	-8	92
	1			21	2	35	1	164	2	108	1	17	1		
10-11	15	164	0	333	1	317	2	-145	-1	-144	-2	16	-1	-7	93
	1			18	1	29	1	81	1	51	1	16	1		
11-12	14	164	0	345	2	332	3	-136	-2	-146	-3	13	-1	-5	93
	3	1		24	1	26	1	109	1	80	1	18	1	1	
12-13	14	157	0	351	1	341	2	-59	-1	-85	-2	10	-1	-3	95
	2	6		26	1	34	1	151	1	132	1	18	1		
13-14	14	135	0	044	1	034	2	51	-1	39	-2	12	-1	-2	96
	1	17		39	1	77	1	99	1	121	1	41	1		
14-15	14	093	0	018	2	308	2	13	-2	19	-2	23	-1	0	97
		31		57	2	90	1	105	2	107	1	41	1	1	
15-16	15	067	0	285	1	256	2	-37	-1	-42	-2	8	-1	1	98
		13		102	1	117	1	118	1	114	1	52	1		
16-17	24	062	0	168	4	153	4	-106	-4	-91	-4	15	0	1	99
	8			101	2	83	1	36	2	32	1	11	1		
17-18	36	062	0	165	6	150	6	-104	-6	-88	-6	16	1	-1	99
	6			14	1	20	1	14	1	12	1	6	1	1	
18-19	41	062	0	164	8	148	6	-102	-8	-86	-6	16	1	-3	100
	4			24	2	18	2	14	2	13	2	5	1	1	
19-20	36	062	0	195	6	176	6	-134	-6	-115	-6	19	0	-5	98
	2			18	1	17	1	10	1	9	1	4	1	1	1
20-21	33	062	0	178	9	160	8	-116	-9	-99	-8	18	1	-7	97
	2			9	1	8	1	7	1	5	1	5	1		
21-22	33	062	0	173	10	156	8	-112	-10	-94	-8	17	1	-8	95
	2			10	1	5	1	8	1	5	1	6	1		
22-23	33	062	0	162	11	147	9	-101	-11	-85	-9	16	2	-8	94
	2			10	1	6	1	9	1	5	1	8	1		
23-24	35	062	0	147	11	134	8	-85	-11	-73	-8	13	3	-9	94
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2352 150452Z 15007KT 1/16SM -SN FZFG VV000 M10/M10 RMK  SNB30 VRY LGT ICG
0049 150549Z 15008KT 1/16SM -SN FZFG VV000 M11/M11 RMK  LGT ICG
0156 150656Z 15007KT 1/16SM -SN FZFG VV000 M11/M11 RMK  LGT ICG
0251 150751Z 15006KT 1/16SM -SN FZFG VV000 M12/M12 RMK  LGT ICG
0350 150850Z 15008KT 1/16SM -SN FZFG VV000 M12/M12 RMK  LGT ICG
0459 150959Z 15009KT 1/16SM -SN FZFG VV000 M13/M13 RMK  LGT ICG
0556 151056Z 15008KT 1/16SM -SN FZFG VV000 M13/M13 RMK  LGT ICG
0650 151150Z 15009KT 1/16SM -SN FZFG VV000 M13/M13 RMK  LGT ICG
0745 151245Z 10008KT 1/16SM -SN FZFG VV000 M13/M13 RMK  LGT ICG
0851 151351Z 07010KT 1/16SM -SN FZFG VV000 M11/M11 RMK  LGT ICG
0945 151445Z 07012KT 1/16SM -SN FZFG VV000 M12/M12 RMK  LGT ICG
1051 151551Z 07011KT 1/16SM -SN FZFG VV000 M11/M11 RMK  LGT ICG
1148 151648Z 07013KT 1/16SM -SN FZFG VV000 M12/M12 RMK  LGT ICG
1250 151750Z 07017KT 1/16SM -SN FZFG VV000 M12/M12 RMK  LGT ICG
1451 151951Z 07021KT 0SM -SN FZFG VV000 M13/M13 RMK  LGT ICG
1556 152056Z 04035KT 0SM -SN FZFG VV000 M13/M13 RMK  LGT ICG
1658 152158Z 03037G49KT 0SM -SN FZFG VV000 M11/M11 RMK  LGT ICG
1759 152259Z 03046G56KT 0SM -SN FZFG VV000 M14/M14 RMK  LGT ICG
1853 152353Z 35039G55KT 0SM -SN BLSN FZFG VV000 M14/M14 RMK  LGT ICG
1959 160059Z 32048G61KT 0SM -SN BLSN FZFG VV000 M14/M14 RMK  LGT ICG
2055 160155Z 32049G59KT 0SM -SN BLSN FZFG VV000 M14/M14 RMK  LGT ICG
2158 160258Z 32056G76KT 0SM -SN BLSN FZFG VV000 M14/M14 RMK  LGT ICG
2259 160359Z 31065G75KT 0SM -SN BLSN FZFG VV000 M14/M14 RMK  LGT ICG
2359 160459Z 31066G78KT 0SM -SN BLSN FZFG VV000 M14/M14 RMK  LGT ICG
0055 160555Z 31070G83KT 0SM BLSN FZFG VV000 M15/M15 RMK  SNE35 LGT ICG
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00-01	32	062	0	161	10	146	8	-100	-10	-84	-8	16	2	-9	93
	1			43	2	37	1	10	2	7	1	8	1		
01-02	35	062	0	153	10	139	8	-92	-10	-77	-8	14	2	-9	93
	1			15	2	14	1	12	2	9	1	7	1		
02-03	34	062	0	151	9	136	7	-89	-9	-75	-7	14	2	-10	93
	1			22	2	18	1	14	2	12	1	6	1		
03-04	32	062	0	140	13	127	9	-78	-13	-65	-9	13	4	-10	93
	1			13	2	7	1	9	2	6	1	5	1		
04-05	31	062	0	138	17	125	11	-77	-17	-64	-11	13	6	-10	92
	1			10	3	7	2	10	3	7	2	7	2		
05-06	32	062	0	137	16	125	11	-76	-16	-63	-11	12	5	-11	92
	1			10	3	7	2	9	3	6	2	6	1		
06-07	32	062	0	136	15	124	10	-74	-15	-62	-10	12	5	-11	92
	2			14	3	13	1	11	3	9	1	8	1		
07-08	28	062	0	115	18	105	11	-53	-18	-44	-11	10	7	-11	92
	3			21	2	18	2	8	2	7	2	4	1		

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08-09			24	062	0	097	13	090	9	-36	-13	-28	-9	8	4	-11	91
			2			16	2	11	1	12	2	10	1	4	1		
09-10			21	062	0	088	12	081	10	-26	-12	-20	-10	7	2	-11	91
			2			11	2	9	1	10	2	9	1	4	2		
10-11			18	062	0	077	12	071	11	-15	-12	-10	-11	5	1	-10	91
			1			4	2	4	1	3	2	2	1	3	1		
11-12			19	062	0	076	13	069	13	-14	-13	-8	-13	6	0	-9	92
			1			5	2	4	1	4	2	4	1	4	1		
12-13			17	061	0	078	16	072	14	-16	-16	-11	-14	5	2	-9	92
						6	2	4	2	5	2	4	2	5	1		
13-14			17	061	0	068	13	058	14	-6	-13	4	-14	10	-1	-9	93
						8	1	11	1	6	1	6	1	6	1		
14-15			17	061	0	052	13	039	14	9	-13	22	-14	13	-1	-8	93
						13	2	11	2	11	2	10	2	8	1		
15-16			18	061	0	032	20	019	18	29	-20	42	-18	13	2	-9	93
						10	3	7	2	8	3	6	2	6	1		
16-17		(0.1)	19	061	0	018	24	006	22	43	-24	55	-22	12	2	-9	93
						13	3	7	3	11	3	7	3	8	1		
17-18		(23.5)	20	061	0	000	33	350	28	61	-33	71	-28	10	4	-10	93
						11	4	10	4	11	4	8	4	9	2		
18-19	274	(50.1)	20	061	0	357	33	345	29	64	-33	76	-29	12	4	-11	92
						15	4	8	5	12	4	8	5	13	3		
19-20	114	(83.1)	21	035	0	353	35	332	32	42	-35	47	-32	5	1	-12	92
			1	46		24	5	39	9	36	5	70	9	55	10		
20-21	3	(99.7)	30	340	0	342	19	239	33	-2	-19	101	-33	-10	-16	-12	91
			5	15		16	6		3	17	6	13	3	140	11		
21-22	4	(99.6)	45	340	0	340	12	287	52	0	-12	48	-52	60	-39	-12	91
			3	20		18	2		24	16	2	38	24	17	25		
22-23	1	(99.9)	78	331	0	332	15	312	65	-1	-15	26	-65	21	-45	-13	90
			21	15		16	4			14	4						
23-24	0	(100.0)	98	328	0	328	18	000	0	0	-18	0	0	0	0	-13	90
				12		19	2			18	2						

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2359 160459Z 31066G78KT 0SM **-SN BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
0055 160555Z 31070G83KT 0SM **BLSN FZFG** VV000 M15/M15 RMK **SNE**35 LGT **ICG**
0159 160659Z 31076G97KT 0SM **BLSN FZFG** VV000 M15/M15 RMK PK WND 310103/45 LGT **ICG**
0259 160759Z 32070G93KT 0SM **BLSN FZFG** VV000 M16/M16 RMK PK WND 310106/10 LGT **ICG**
0353 160853Z 32081G109KT 0SM **BLSN FZFG** VV000 M16/M16 RMK MOD **ICG**
0459 160959Z 32078G119KT 0SM **BLSN FZFG** VV000 M18/M18 RMK LGT **ICG**
0557 161057Z 32077G107KT 0SM **BLSN FZFG** VV000 M18/M18 RMK PK WND 320114/30 LGT **ICG**
0655 161155Z 32066G82KT 0SM **BLSN FZFG** VV000 M18/M18 RMK PK WND 320108/25 LGT **ICG**
0747 161247Z 32076G105KT 0SM **BLSN FZFG** VV000 M18/M18 RMK LGT **ICG**
0858 161358Z 29070G82KT 0SM **BLSN FZFG** VV000 M18/M18 RMK MOD **ICG**
0952 161452Z 30076G88KT 0SM **BLSN FZFG** VV000 M17/M17 RMK MOD **ICG**
1058 161558Z 29083G93KT 0SM **BLSN FZFG** VV000 M16/M16 RMK MOD **ICG**
1159 161659Z 29076G92KT 1/16SM **BLSN FZFG** VV000 M16/M16 RMK SUN DMLY VSBL LGT **ICG**
1247 161747Z 29076G96KT 1/16SM **DRSN FZFG** VV000 M16/M16 RMK **FZFG** INTMT SUN DMLY VSBL LGT **ICG**
1359 161859Z 28070G88KT 30SM **DRSN** FEW020 M14/M17 RMK INTMT **FZFG** LGT **ICG**
1453 161953Z 29078G94KT 40SM **DRSN** FEW003 SCT020 M13/M16
1551 162051Z 28071G83KT 40SM **DRSN** FEW003 SCT020 M13/M15
1659 162159Z 28063G73KT 5SM **DRSN** OVC002 M13/M15 RMK CIG LWRG RPDLY
1752 162252Z 28063G72KT 0SM **DRSN FZFG** VV000 M13/M13 RMK LGT **ICG**
1849 162349Z 28063G73KT 0SM **DRSN FZFG** VV000 M12/M12 RMK LGT **ICG**
1950 170050Z 28071G83KT 0SM **DRSN FZFG** VV000 M12/M12 RMK LGT **ICG**
2057 170157Z 28069G77KT 0SM **DRSN FZFG** VV000 M12/M12 RMK LGT **ICG**
2158 170258Z 28070G82KT 0SM **DRSN FZFG** VV000 M12/M12 RMK LGT **ICG**
2258 170358Z 29066G83KT 0SM **DRSN FZFG** VV000 M11/M11 RMK LGT **ICG**
2357 170457Z 28073G82KT 0SM **DRSN FZFG** VV000 M11/M11 RMK LGT **ICG**
0050 170550Z 28071G82KT 0SM **DRSN FZFG** VV000 M11/M11 RMK LGT **ICG**

00-01	1	(99.9)	98	326	0	326	16	318	60	0	-16	16	-60	7	-44	-13	90
				41		10	2			12	2						
01-02	131	(83.6)	98	330	0	327	21	321	58	2	-21	10	-58	8	-37	-13	90
				16		13	2	5	9	12	2	13	9	10	8		
02-03	186	(72.4)	97	330	0	329	20	322	57	1	-20	11	-57	8	-37	-14	90
			11	35		21	3	8	11	16	3	16	11	11	10		
03-04		(43.7)	56	331	0	324	26	321	61	7	-26	10	-61	2	-35	-14	89
			47	18		16	2	6	10	16	2	17	10	13	9		
04-05	285	(44.8)	98	329	0	311	30	320	61	18	-30	10	-61	-9	-31	-15	89
			1	26		13	5	7	10	16	5	19	10	10	9		
05-06	266	(53.4)	98	346	0	316	33	316	78	29	-33	28	-78	0	-45	-16	88
			5	52		16	2	35	53	31	2	45	53	36	53		
06-07		(22.5)	84	039	0	311	30	322	59	-10	-30	-27	-59	-11	-28	-16	88
			33	142		28	3	5	9	50	3	41	9	13	7		
07-08	202	(66.2)	48	300	0	308	33	319	59	-8	-33	-13	-59	-10	-27	-16	87
			48	53		23	3	24	20	53	3	57	20	24	20		

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08-09	274	(47.3)	60	114	0	321	43	318	58	24	-43	31	-58	7	-14	-16	87
			46	189		33	9	24	30	57	9	60	30	30	33		
09-10		(28.5)	95	209	0	350	61	327	48	-31	-61	-18	-48	24	12	-16	87
			14	113		26	8	15	8	77	8	59	8	17	7		
10-11		(32.0)	98	072	0	349	64	326	50	-25	-64	-9	-50	24	15	-16	87
			6	139		30	8	12	9	74	8	63	9	17	7		
11-12		(31.2)	97	016	0	004	64	337	47	-15	-64	7	-47	27	16	-16	87
			9	101		19	10	16	9	67	10	61	9	17	7		
12-13		(27.2)	94	317	0	353	62	330	49	-29	-62	-12	-49	24	14	-15	87
			13	70		28	10	17	10	67	10	59	10	16	6		
13-14		(39.9)	86	299	0	310	58	305	46	-8	-58	-4	-46	5	11	-14	88
			23	62		49	8	28	8	63	8	56	8	15	4		
14-15		(26.5)	99	231	0	299	57	305	46	-15	-57	-19	-46	-5	10	-13	89
				100		17	7	11	7	50	7	52	7	11	4		
15-16		(24.3)	99	247	0	292	60	303	49	4	-60	-9	-49	-11	10	-12	90
				104		9	6	9	6	53	6	52	6	8	3		
16-17		(6.2)	98	280	0	290	56	296	49	-10	-56	-16	-49	-6	7	-12	91
				77		14	4	7	5	46	4	45	5	8	3		
17-18		(4.5)	98	251	0	297	54	295	47	-33	-54	-31	-47	2	6	-12	91
				55		9	3	5	4	32	3	31	4	6	2		
18-19		(2.1)	98	071	0	298	52	295	46	27	-52	30	-46	3	6	-12	91
				131		6	3	5	3	51	3	51	3	6	2		
19-20		(7.5)	99	224	0	300	58	296	50	-47	-58	-42	-50	4	8	-12	91
				68		17	5	11	4	43	5	43	4	6	3		
20-21		(7.2)	99	118	0	302	58	296	50	17	-58	23	-50	6	9	-11	91
				166		10	4	5	4	70	4	69	4	7	3		
21-22		(2.5)	99	020	0	298	58	294	49	82	-58	87	-49	4	10	-11	91
				23		12	4	6	4	9	4	9	4	7	2		
22-23		(6.7)	99	071	0	308	58	297	49	44	-58	55	-49	11	10	-11	92
				82		18	4	7	4	83	4	74	4	13	2		
23-24		(15.8)	99	173	0	348	61	296	51	-57	-61	-55	-51	51	10	-10	92
				79		16	4	5	4	122	4	79	4	14	3		

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2357 170457Z 28073G82KT 0SM **DRSN FZFG** VV000 M11/M11 RMK LGT **ICG**
0050 170550Z 28071G82KT 0SM **DRSN FZFG** VV000 M11/M11 RMK LGT **ICG**
0159 170659Z 28070G81KT 0SM **DRSN FZFG** VV000 M11/M11 RMK LGT **ICG**
0253 170753Z 28070G80KT 0SM **DRSN FZFG** VV000 M11/M11 RMK LGT **ICG**
0353 170853Z 28069G80KT 0SM **DRSN FZFG** VV000 M11/M11 RMK LGT **ICG**
0459 170959Z 28064G78KT 0SM **DRSN FZFG** VV000 M10/M10 RMK LGT **ICG**
0558 171058Z 28063G71KT 0SM **DRSN FZFG** VV000 M10/M10 RMK LGT **ICG**
0651 171151Z 28070G88KT 0SM **DRSN FZFG** VV000 M10/M10 RMK LGT **ICG**
0744 171244Z 28070G82KT 0SM **DRSN FZFG** VV000 M10/M10 RMK LGT **ICG**
0853 171353Z 28067G75KT 0SM **DRSN FZFG** VV000 M09/M09 RMK PK WND 28087/20 LGT **ICG**
0950 171450Z 28068G81KT 0SM **DRSN FZFG** M09/M09 RMK LGT **ICG**
1056 171556Z 28060G70KT 0SM **DRSN FZFG** VV000 M08/M08 RMK LGT **ICG**
1147 171647Z 28052G60KT 0SM **DRSN FZFG** VV000 M08/M08 RMK LGT **ICG**
1250 171750Z 29060G70KT 1/16SM **DRSN FZFG** VV000 M08/M08 RMK LGT **ICG**
1359 171859Z 28061G67KT 50SM **DRSN** OVC008 M06/M07
1459 171959Z 29050G62KT 55SM FEW005 SCT100 M06/M08
1559 172059Z 28048G61KT 55SM FEW006 SCT100 M06/M08
1659 172159Z 27050G55KT 50SM FEW006 SCT100 M06/M07 RMK HZ DSNT ALQDS
1758 172258Z 28057G63KT 50SM SCT100 M06/M09 RMK HZ DSNT ALQDS
1852 172352Z 27051KT 45SM SCT100 M06/M08 RMK HZ DSNT ALQDS
1952 180052Z 27048KT 65SM FEW010 SCT100 M06/M06
2051 180151Z 27048KT 65SM OVC005 M05/M07
2158 180258Z 27046G51KT 65SM OVC001 M05/M06
2359 180459Z 27055G64KT 65SM OVC005 M02/M04
0058 180558Z 27048G57KT 20SM OVC002 M02/M02

00-01	(11.0)	99	087	0	358	63	296	53	-35	-63	-33	-53	62	11	-10	92
			117		7	4	5	4	133	4	100	4	6	3		
01-02	(4.8)	99	276	0	358	60	296	50	-26	-60	-20	-50	62	9	-10	92
			117		9	4	6	4	122	4	98	4	6	2		
02-03	(2.2)	99	185	0	357	60	294	50	-27	-60	-24	-50	64	9	-10	92
			125		7	4	4	4	130	4	106	4	6	2		
03-04	(3.4)	99	198	0	359	59	292	51	-29	-59	-24	-51	67	9	-9	92
			110		10	3	10	4	129	3	96	4	6	2		
04-05	(9.6)	98	084	0	006	57	297	49	35	-57	-27	-49	69	8	-9	93
			109		9	4	6	4	130	4	101	4	8	3		
05-06	(1.7)	99	098	0	011	52	297	47	65	-52	-31	-47	74	5	-9	93
			137		15	4	6	4	126	4	93	4	8	2		
06-07	(25.8)	99	100	0	022	57	295	53	77	-57	-30	-53	87	4	-9	93
			115		8	5	6	5	104	5	106	5	7	3		
07-08	(0.8)	98	113	0	020	57	299	53	93	-57	-37	-53	82	3	-9	93
			148		8	5	6	4	99	5	104	4	6	4		

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08-09	(5.5)	99	095	0	015	56	298	52	72	-56	-35	-52	77	4	-9	93
			118		10	5	7	4	101	5	107	4	8	5		
09-10	(0.4)	98	109	0	011	59	299	50	78	-59	-36	-50	72	9	-9	93
			142		9	5	10	5	113	5	108	5	7	3		
10-11	(0.2)	98	100	0	005	53	294	46	34	-53	-35	-46	71	7	-8	93
			112		9	4	7	4	130	4	110	4	7	2		
11-12	(0.2)	98	166	0	005	47	293	41	45	-47	-25	-41	72	5	-8	93
			114		13	4	9	4	124	4	112	4	6	2		
12-13	(1.9)	98	099	0	005	50	293	44	37	-50	-30	-44	72	6	-8	94
			96		10	4	9	4	129	4	108	4	7	2		
13-14	(0.2)	98	267	0	360	45	287	41	-3	-45	-25	-41	68	5	-7	94
			124		9	3	8	3	135	3	109	3	39	2		
14-15		98	255	0	001	47	290	42	14	-47	-35	-42	70	5	-6	94
			117		9	3	6	3	136	3	109	3	24	2		
15-16	(0.1)	98	112	0	002	42	291	37	24	-42	-39	-37	71	5	-6	95
			113		10	3	6	3	147	3	108	3	7	2		
16-17		98	129	0	356	39	283	35	-54	-39	-59	-35	70	4	-5	95
			84		12	2	13	2	150	2	105	2	31	2		
17-18		98	167	0	354	44	280	40	-78	-44	-28	-40	72	4	-5	95
			101		13	3	5	3	122	3	110	3	18	2		
18-19		98	117	0	353	41	280	37	-101	-41	-37	-37	73	4	-6	96
			105		4	2	3	3	117	2	109	3	4	1		
19-20		98	266	0	357	43	286	38	-54	-43	-19	-38	71	4	-6	95
			125		4	2	4	3	136	2	114	3	4	1		
20-21		98	156	0	360	40	289	35	-33	-40	-67	-35	71	4	-6	95
			70		7	2	4	2	159	2	93	2	5	1		
21-22		98	176	0	001	38	291	34	14	-38	-103	-34	70	4	-6	95
			38		7	2	6	2	176	2	45	2	5	1		
22-23		98	166	0	001	39	290	34	9	-39	-72	-34	71	4	-6	95
			65		9	3	5	3	167	3	84	3	6	1		
23-24		98	172	0	356	44	284	39	-119	-44	-85	-39	72	4	-5	95
			66		5	3	5	3	125	3	74	3	4	1		

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DATE = **0318**

2359 180459Z 27055G64KT 65SM OVC005 M02/M04
0058 180558Z 27048G57KT 20SM OVC002 M02/M02
0156 180656Z 27041KT 20SM OVC002 M01/M01
0258 180758Z 25035KT 20SM OVC005 M00/M00
0357 180857Z 25037KT 20SM OVC005 M00/M00
0458 180958Z 26040KT 1/16SM **FZFG** VV000 M02/M02 RMK LGT **ICG**
0553 181053Z 26043G52KT 1/16SM **FZFG** VV000 M01/M01 RMK LGT **ICG**
0650 181150Z 26048G52KT 1/8SM **FZFG** VV000 M01/M01 RMK LGT **ICG**
0743 181243Z 25045G51KT 1/8SM **FZFG** VV000 M01/M01 RMK **FZFG** INTMT LGT **ICG**
0855 181355Z 25036G48KT 1/16SM **FZFG** VV000 M02/M02 RMK **FZFG** INTMT LGT **ICG**
0951 181451Z 26035KT 1/16SM **-SN FZFG** VV000 M03/M03 RMK **SNB**15 LGT **ICG**
1057 181557Z 24044KT 0SM **-SN FZFG** VV000 M03/M03 RMK LGT **ICG**
1154 181654Z 26043G47KT 0SM **-SN FZFG** VV000 M04/M04 RMK LGT **ICG**
1254 181754Z 26037G41KT 0SM **FZFG** VV000 M05/M05 RMK **SNE**05 LGT **ICG**
1358 181858Z 26037G47KT 0SM **-SN FZFG** VV000 M06/M06 RMK **SNB**30 LGT **ICG**
1455 181955Z 28054G61KT 0SM **FZFG** VV000 M07/M07 RMK **SNE**30 LGT **ICG**
1555 182055Z 28056G70KT 0SM **FZFG** VV000 M09/M09 RMK LGT **ICG**
1650 182150Z 27061G73KT 1/16SM **FZFG** VV000 M10/M10 RMK LGT **ICG**
1754 182254Z 27063G70KT 1/16SM **FZFG** VV000 M10/M10 RMK LGT **ICG**
1855 182355Z 27046G56KT 0SM **FZFG** VV000 M10/M10 RMK LGT **ICG**
1955 190055Z 27056G62KT 0SM **FZFG** VV000 M10/M10 RMK LGT **ICG**
2054 190154Z 27065G69KT 0SM **FZFG** VV000 M10/M10 RMK LGT **ICG**
2154 190254Z 27061G69KT 0SM **-SN BLSN FZFG** VV000 M10/M10 RMK **SNB**10 LGT **ICG**
2255 190355Z 27036G75KT 0SM **-SN BLSN FZFG** VV000 M10/M10 RMK LGT **ICG**
2354 190454Z 28060G66KT 0SM **-SN BLSN FZFG** VV000 M10/M10 RMK LGT **ICG**
0055 190555Z 28053G63KT 0SM **-SN BLSN FZFG** VV000 M11/M11 RMK LGT **ICG**

00-01	98	173	0	354	43	284	39	-134	-43	-93	-39	68	5	-4	96
		54		13	4	8	4	107	4	60	4	18	2		
01-02	98	165	0	353	32	275	29	-93	-32	-87	-29	73	3	-3	96
		57		13	3	7	3	138	3	69	3	41	1		
02-03	98	265	0	347	24	266	22	-32	-24	-75	-22	21	2	-2	97
		125		17	3	5	3	126	3	110	3	123	1		
03-04	98	272	0	344	24	265	23	-50	-24	-76	-23	35	2	-2	97
		111		17	2	4	2	115	2	108	2	107	1		
04-05	98	278	0	344	25	264	23	-35	-25	-78	-23	22	2	-2	98
		102		14	2	5	3	117	2	111	3	121	1		
05-06	40	273	0	339	26	260	25	-43	-26	-73	-25	48	2	-1	98
	35	99		19	3	7	3	114	3	104	3	92	2		
06-07	18	211	0	337	29	259	27	-44	-29	-44	-27	49	2	1	98
		109		13	3	5	4	99	3	101	4	88	2	1	
07-08	18	276	0	334	30	257	28	-57	-30	19	-28	64	2	0	98
		17		12	2	4	3	23	2	16	3	61	2		

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08-09			19	281	0	343	29	262	27	-54	-29	19	-27	30	2	0	99
			3	28		29	3	16	3	50	3	16	3	113	2		
09-10			35	286	0	346	26	266	24	-52	-26	19	-24	51	2	0	99
			15	22		30	3	9	3	48	3	13	3	90	1		
10-11			98	296	0	353	34	275	30	-57	-34	22	-30	65	3	1	99
				14		24	2	3	2	16	2	10	2	65	1		
11-12			98	296	0	354	32	271	29	-56	-32	25	-29	46	2	-1	99
				19		18	3	6	3	29	3	10	3	103	1	1	
12-13			98	309	0	354	31	272	29	-45	-31	38	-29	38	2	-2	99
				24		19	3	5	3	17	3	10	3	110	2		
13-14		(3.5)	98	316	0	353	36	273	33	-37	-36	43	-33	56	3	-3	99
				14		17	5	5	4	17	5	8	4	84	2		
14-15		(4.1)	98	314	0	355	39	282	34	-41	-39	32	-34	72	5	-4	98
						15	7	16	6	8	7	5	6	18	2		
15-16		(3.8)	98	314	0	356	45	282	39	-42	-45	32	-39	71	6	-5	98
						10	5	6	4	10	5	6	4	31	2		
16-17		(2.9)	98	314	0	354	52	282	44	-41	-52	32	-44	72	7	-6	98
						9	4	5	4	9	4	4	4	20	2		
17-18			98	314	0	353	52	281	45	-39	-52	32	-45	72	8	-7	97
						12	4	6	4	8	4	5	4	9	2		
18-19		(0.1)	98	314	0	354	46	287	38	-41	-46	26	-38	66	7	-8	96
						8	5	5	4	8	5	5	4	19	2		
19-20		(0.2)	98	314	0	355	49	287	42	-41	-49	26	-42	67	7	-8	95
						16	5	13	5	8	5	4	5	8	2		
20-21		(6.9)	98	314	0	355	51	284	43	-41	-51	30	-43	71	9	-8	94
						11	3	6	3	11	3	4	3	11	2		
21-22		(3.4)	98	314	0	353	53	282	44	-39	-53	32	-44	71	9	-9	94
						11	3	3	3	11	3	2	3	11	2		
22-23		(24.5)	98	314	0	002	52	287	44	-49	-52	27	-44	75	8	-9	93
						18	3	8	4	11	3	6	4	10	2		
23-24	207	(64.1)	98	314	0	009	51	293	43	-55	-51	21	-43	74	8	-9	93
						14	4	14	4	9	4	5	4	7	3		

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2354 190454Z 28060G66KT 0SM **-SN BLSN FZFG** VV000 M10/M10 RMK LGT **ICG**
0055 190555Z 28053G63KT 0SM **-SN BLSN FZFG** VV000 M11/M11 RMK LGT **ICG**
0159 190659Z 28055G59KT 0SM **-SN BLSN FZFG** VV000 M12/M12 RMK LGT **ICG**
0258 190758Z 28056G67KT 0SM **-SN BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
0359 190859Z 28057G69KT 0SM **-SN BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
0459 190959Z 29058G65KT 0SM **-SN BLSN FZFG** VV000 M13/M13 RMK LGT **ICG**
0553 191053Z 29066G79KT 0SM **-SN BLSN FZFG** VV000 M13/M13 RMK LGT **ICG**
0652 191152Z 29063G74KT 0SM **BLSN FZFG** VV000 M14/M14 RMK **SNE**45 LGT **ICG**
0743 191243Z 29059G68KT 0SM **BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
0858 191358Z 29063G70KT 0SM **BLSN FZFG** VV000 M13/M13 RMK LGT **ICG**
0954 191454Z 29056G63KT 0SM **FZFG** VV000 M13/M13 RMK LGT **ICG**
1057 191557Z 30057G63KT 0SM **BLSN FZFG** VV000 M12/M12 RMK LGT **ICG**
1158 191658Z 30053G63KT 0SM **BLSN FZFG** VV000 M12/M12 RMK LGT **ICG**
1258 191758Z 30050G57KT 0SM **BLSN FZFG** VV000 M12/M12 RMK LGT **ICG**
1352 191852Z 29053G58KT 0SM **BLSN FZFG** VV000 M13/M13 RMK LGT **ICG**
1455 191955Z 29055G65KT 0SM **BLSN FZFG** VV000 M13/M13 RMK LGT **ICG**
1550 192050Z 30056G64KT 0SM **BLSN FZFG** VV000 M13/M13 RMK LGT **ICG**
1652 192152Z 30057G68KT 0SM **BLSN FZFG** VV000 M13/M13 RMK LGT **ICG**
1755 192255Z 30053G62KT 0SM **BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
1850 192350Z 30049G57KT 0SM **BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
1957 200057Z 30046G52KT 0SM **-SN BLSN FZFG** VV000 M15/M15 RMK **SNB**10 LGT **ICG**
2051 200151Z 30049G56KT 0SM **-SN BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
2159 200259Z 30046G52KT 0SM **-SN BLSN FZFG** VV000 M15/M15 RMK LGT **ICG**
2258 200358Z 30044G54KT 0SM **-SN BLSN FZFG** VV000 M15/M15 RMK LGT **ICG**
2352 200452Z 29042G53KT 0SM **-SN BLSN FZFG** VV000 M14/M14 RMK LGT **ICG**
0058 200558Z 29041G48KT 0SM **-SN BLSN FZFG** VV000 M15/M15 RMK LGT **ICG**

00-01		(26.8)	98	314	0	008	54	294	44	0	0	0	0	74	9	-9	93
						12	3	5	4					9	2		
01-02		(4.6)	98	314	0	003	51	294	42	0	0	0	0	70	9	-9	93
						10	6	7	4					9	3		
02-03		(6.1)	98	314	0	005	43	294	41	0	0	0	0	70	2	-9	93
						15	9	4	4					12	7		
03-04	164	(71.4)	98	314	0	016	41	297	46	0	0	0	0	73	0	-10	93
						22	8	12	6					12	6		
04-05	154	(78.7)	98	314	0	049	53	327	34	0	0	0	0	77	18	-11	93
						17	7	18	16					37	16		
05-06	175	(74.5)	98	314	0	025	52	314	35	0	0	0	0	74	17	-11	92
						35	8	20	7					27	7		
06-07	256	(56.8)	98	314	0	024	55	308	36	0	0	0	0	74	18	-12	91
						32	7	14	7					16	7		
07-08	220	(64.9)	98	314	0	050	59	326	34	0	0	0	0	81	23	-12	91
						19	10	23	7					15	8		

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08-09	227	(62.2)	98	314	0	031	47	320	31	0	0	0	0	72	15	-12	91
						31	9	11	7					19	8		
09-10		(20.7)	98	314	0	355	44	308	31	0	0	0	0	47	13	-12	91
							6	5	4					5	6		
10-11		(8.2)	98	314	0	355	49	306	34	0	0	0	0	50	16	-12	91
							4	3	4					4	2		
11-12		(3.8)	98	314	0	355	47	307	35	0	0	0	0	49	13	-12	90
							4	3	4					2	4		
12-13		(1.1)	98	314	0	355	48	306	34	0	0	0	0	50	13	-12	91
							3	2	4					3	3		
13-14		(3.5)	98	314	0	356	45	300	35	0	0	0	0	56	10	-12	91
						1	4	5	3					5	3		
14-15		(3.7)	98	314	0	003	46	299	35	0	0	0	0	64	11	-12	91
						12	4	11	3					10	3		
15-16		(4.5)	98	314	0	009	42	299	35	0	0	0	0	70	7	-12	91
						27	7	3	3					12	7		
16-17		(2.6)	98	314	0	010	49	300	36	0	0	0	0	70	13	-12	91
						19	4	4	4					13	3		
17-18		(12.7)	98	314	0	006	32	300	37	0	0	0	0	66	-4	-12	91
						26	10	5	4					8	12		
18-19		(22.2)	98	314	0	009	17	298	38	0	0	0	0	70	-21	-12	91
						23	11	8	4					19	13		
19-20		(6.8)	98	314	0	005	40	295	34	0	0	0	0	70	6	-12	91
						11	3	6	3					8	2		
20-21		(5.3)	98	314	0	005	42	296	35	0	0	0	0	70	6	-12	91
						12	3	7	3					9	2		
21-22		(4.5)	98	314	0	007	39	297	32	0	0	0	0	71	7	-13	91
						16	4	12	4					12	3		
22-23		(5.1)	98	314	0	005	36	295	30	0	0	0	0	70	7	-13	90
						16	4	6	4					12	2		
23-24		(2.5)	98	314	0	005	34	295	27	0	0	0	0	70	7	-13	90
						18	3	7	3					13	2		

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DATE = 0320

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 2352 200452Z 29042G53KT 0SM -SN BLSN FZFG VV000 M14/M14 RMK  LGT ICG
 0058 200558Z 29041G48KT 0SM -SN BLSN FZFG VV000 M15/M15 RMK  LGT ICG
 0155 200655Z 29042G48KT 0SM -SN BLSN FZFG VV000 M15/M15 RMK  LGT ICG
 0255 200755Z 29042KT 0SM -SN BLSN FZFG VV000 M16/M16 RMK  LGT ICG
 0359 200859Z 29037G41KT 1/16SM -SN BLSN FZFG VV000 M17/M17 RMK  LGT ICG
 0459 200959Z 29037KT 1/16SM BLSN FZFG VV000 M16/M16 RMK  SNE30 LGT ICG
 0555 201055Z 29036G42KT 1/16SM BLSN FZFG VV000 M16/M16 RMK  LGT ICG
 0651 201151Z 29041G48KT 1/16SM FZFG VV000 M16/M16 RMK  LGT ICG
 0743 201243Z 29041KT 1/16SM FZFG VV000 M16/M16 RMK  LGT ICG
 0850 201350Z 29038G46KT 1/16SM FZFG VV000 M15/M15 RMK  LGT ICG
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 1154 201654Z 29035G42KT 0SM FZFG VV000 M14/M14 RMK  LGT ICG
*1250 201750Z 29037G42KT 1/16SM FZFG VV000 M14/M14 RMK  LGT ICG
 1350 201850Z 29037KT 1/16SM FZFG VV000 M14/M14 RMK  LGT ICG
 1459 201959Z 29032G37KT 1/16SM -SN FZFG VV000 M14/M14 RMK  LGT ICG
 1550 202050Z 30030KT 1/16SM FZFG VV000 M15/M15 RMK  LGT ICG
 1658 202158Z 28017G31KT 1/16SM FZFG VV000 M15/M15 RMK  FZFG INTMT LGT ICG
 1753 202253Z 3109KT 1/16SM FZFG BKN000 M15/M15 RMK  FZFG BKN000 LGT ICG
 1856 202356Z 33012KT 50SM BKN/// SKC M11/M17 RMK  TPS LWR BKN050
 1955 210055Z 31008KT 15SM SCT/// SKC M11/M15 RMK  TPS LWR FEW050
 2054 210154Z 30010KT 65SM SKC M11/M17
 2153 210253Z 31007KT 65SM SKC M10/M18
 2259 210359Z 31003KT 65SM SKC M10/M17
 2358 210458Z 18004KT 65SM SKC M10/M17
 0057 210557Z 18006KT 65SM SKC M10/M21
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01-02    (  3.5)  98    314  0   012 38    306 30       0   0     0   0    66    8        -13   90
                                  31  5     12  4                            10    3

02-03    ( 13.3)  98    314  0   356 38    290 35       0   0     0   0    65    3        -13   90
                                   6  2      9 15                            18   15

03-04    (  9.7)  98    314  0   359 36    292 31       0   0     0   0    66    5        -14   90
                                  10  4     11  9                            19    9

04-05    (  2.8)  98    314  0   002 35    294 28       0   0     0   0    67    7        -14   90
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05-06    (  2.9)  98    314  0   004 36    295 28       0   0     0   0    70    7        -14   89
                                  25  2      8  2                             7    2

06-07    (  2.2)  98    314  0   003 38    295 31       0   0     0   0    68    7        -15   89
                                  10  3      6  2                             7    2

07-08    (  3.6)  98    314  0   012 38    301 32       0   0     0   0    71    6        -15   89
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Mt. Washington Data

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09-10	(2.1)	98	314	0	007	36	299	30	0	0	0	0	68	7	-15	88
					13	3	9	3					10	2		
10-11	(0.5)	98	314	0	001	38	295	31	0	0	0	0	66	6	-15	88
					14	2	6	3					9	1		
11-12	(0.8)	93	314	0	003	35	294	29	0	0	0	0	68	6	-15	88
		21			14	3	15	3					10	2		
12-13	(1.0)	24	314	0	357	34	290	29	0	0	0	0	67	5	-14	88
		9			10	2	7	3					9	2		
13-14	(0.1)	32	314	0	355	36	289	31	0	0	0	0	66	5	-14	89
		4			10	2	3	2					8	1		
14-15	(0.2)	30	314	0	355	33	289	28	0	0	0	0	66	4	-14	89
		5			30	2	4	1					8	1		
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		12			9	3	7	2					9	1		
16-17	(0.0)	14	314	0	354	26	283	23	0	0	0	0	71	3	-13	90
		14			17	3	6	3					21	1		
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		4			31	4	12	4					32	1		
18-19		7	314	0	038	14	326	10	0	0	0	0	73	5	-13	90
		11			41	4	37	2					7	3		
19-20		31	314	0	030	10	318	8	0	0	0	0	72	2	-13	90
		2			15	3	12	2					5	2		
20-21		28	314	0	028	8	316	7	0	0	0	0	72	2	-13	90
		3			17	2	18	1					5	1		
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Mt. Washington Data

DATE = 0321

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0154 210654Z 18007KT 65SM SKC M10/M21
0259 210759Z 24012KT 65SM SKC M11/M20
0359 210859Z 24013KT 65SM SKC M11/M29
0457 210957Z 24013KT 70SM FEW080 M11/M33
0553 211053Z 23013KT 70SM FEW080 M11/M31
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1753 212253Z 17027G37KT 60SM **DRSN** FEW/// FEW015 OVC020 M10/M12 RMK FEW055
1850 212350Z 17036G43KT 0SM **BLSN FZFG** VV000 M10/M10 RMK LGT **ICG**
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2057 220157Z 16046G56KT 0SM **-SN BLSN FZFG** VV000 M11/M11 RMK LGT **ICG**
2156 220256Z 16046G50KT 0SM **-SN BLSN FZFG** VV000 M12/M12 RMK LGT **ICG**
2255 220355Z 16048KT 0SM **-SN BLSN FZFG** VV000 M11/M11 RMK LGT **ICG**
2359 220459Z 16060G68KT 0SM -SB **BLSN FZFG** VV000 M10/M10 RMK LGT **ICG**
0056 220556Z 15056G62KT 0SM **-SN BLSN FZFG** VV000 M10/M10 RMK LGT **ICG**

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01-02	23	314	0	287	6	211	6	0	0	0	0	77	0	-14	89
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02-03	23	314	0	316	8	245	9	0	0	0	0	71	-1	-14	89
				35	1	42	1					3	1		
03-04	23	314	0	322	10	252	10	0	0	0	0	70	-1	-14	89
				3	1	4	1					2	1		
04-05	23	314	0	324	10	253	11	0	0	0	0	70	-1	-14	89
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06-07	22	314	0	309	10	240	13	0	0	0	0	70	-2	-14	89
				8	1	5	1					8	1		
07-08	21	314	0	303	9	232	10	0	0	0	0	71	-1	-13	89
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Mt. Washington Data

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10-11			17	314	0	283	10	207	10	0	0	0	0	76	0	-12	90
						13	2	8	2					9	1		
11-12			18	314	0	281	10	206	10	0	0	0	0	76	0	-11	90
			1			15	3	12	3					12	1		
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14-15			19	314	0	247	14	171	13	0	0	0	0	77	2	-9	93
			1			32	4	25	4					21	2		
15-16			21	314	0	252	17	176	15	0	0	0	0	76	2	-9	93
			1			16	3	13	3					11	1		
16-17			22	314	0	244	20	168	19	0	0	0	0	76	1	-9	93
						14	2	6	3					8	1		
17-18			23	314	0	238	27	163	26	0	0	0	0	76	1	-10	92
						9	3	4	3					8	1		
18-19		(0.1)	62	314	0	239	32	162	30	0	0	0	0	76	2	-9	93
			30			10	3	7	3					7	1		
19-20		(11.0)	98	320	0	235	34	159	31	0	0	0	0	76	3	-9	93
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20-21	213	(79.9)	98	357	0	233	41	153	35	0	0	0	0	81	6	-9	93
				17		13	3	7	7					12	6		
21-22	117	(88.3)	98	354	0	232	37	157	31	0	0	0	0	79	8	-10	92
				13		21	4	26	8					28	7		
22-23	39	(97.9)	98	355	0	225	36	150	40	0	0	0	0	73	-3	-11	92
				20		12	3	42	14					25	14		
23-24	4	(99.9)	99	343	0	219	39	224	11	0	0	0	0	-11	30	-10	93
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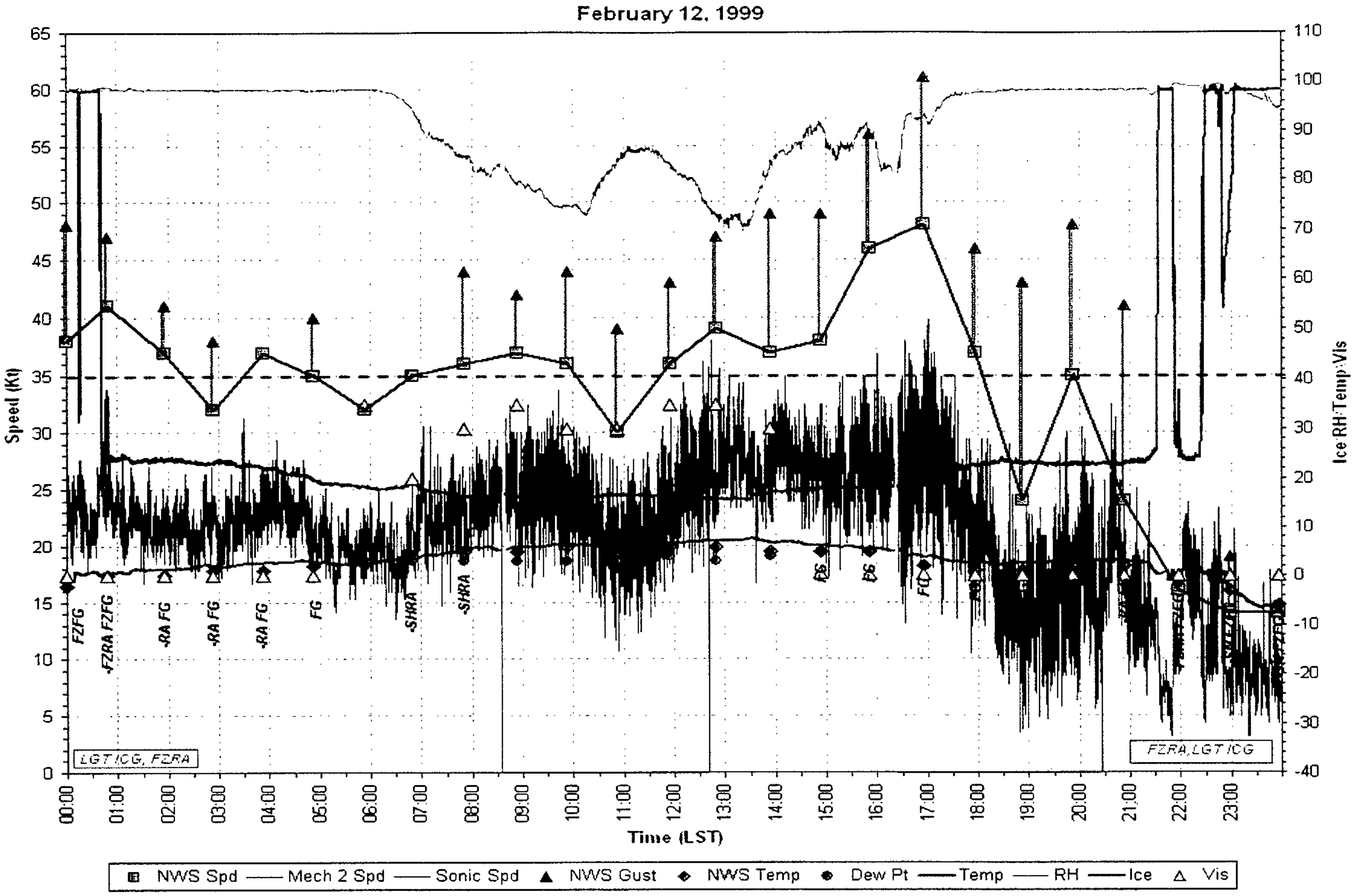
APPENDIX C

DATA PLOTS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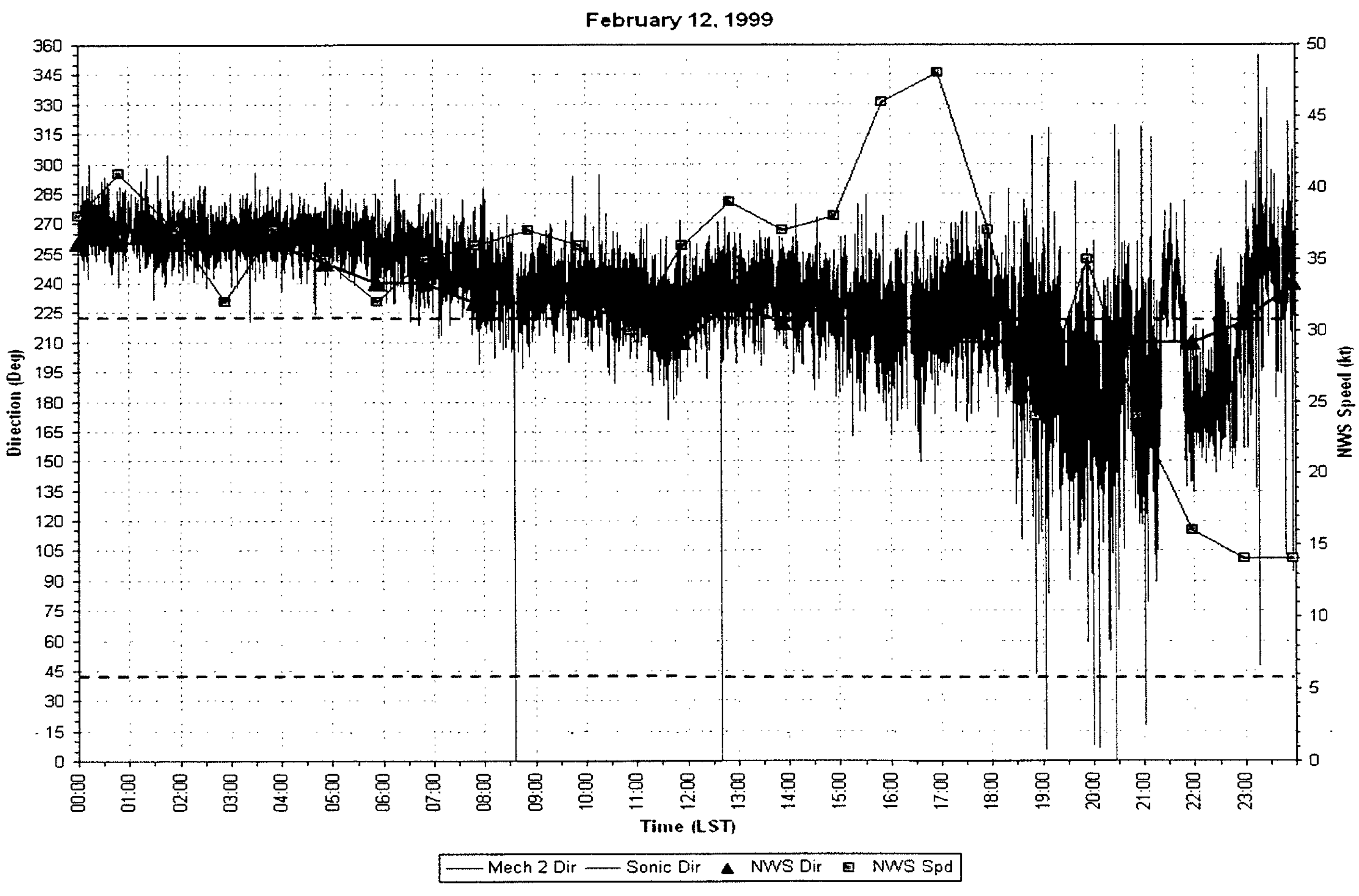
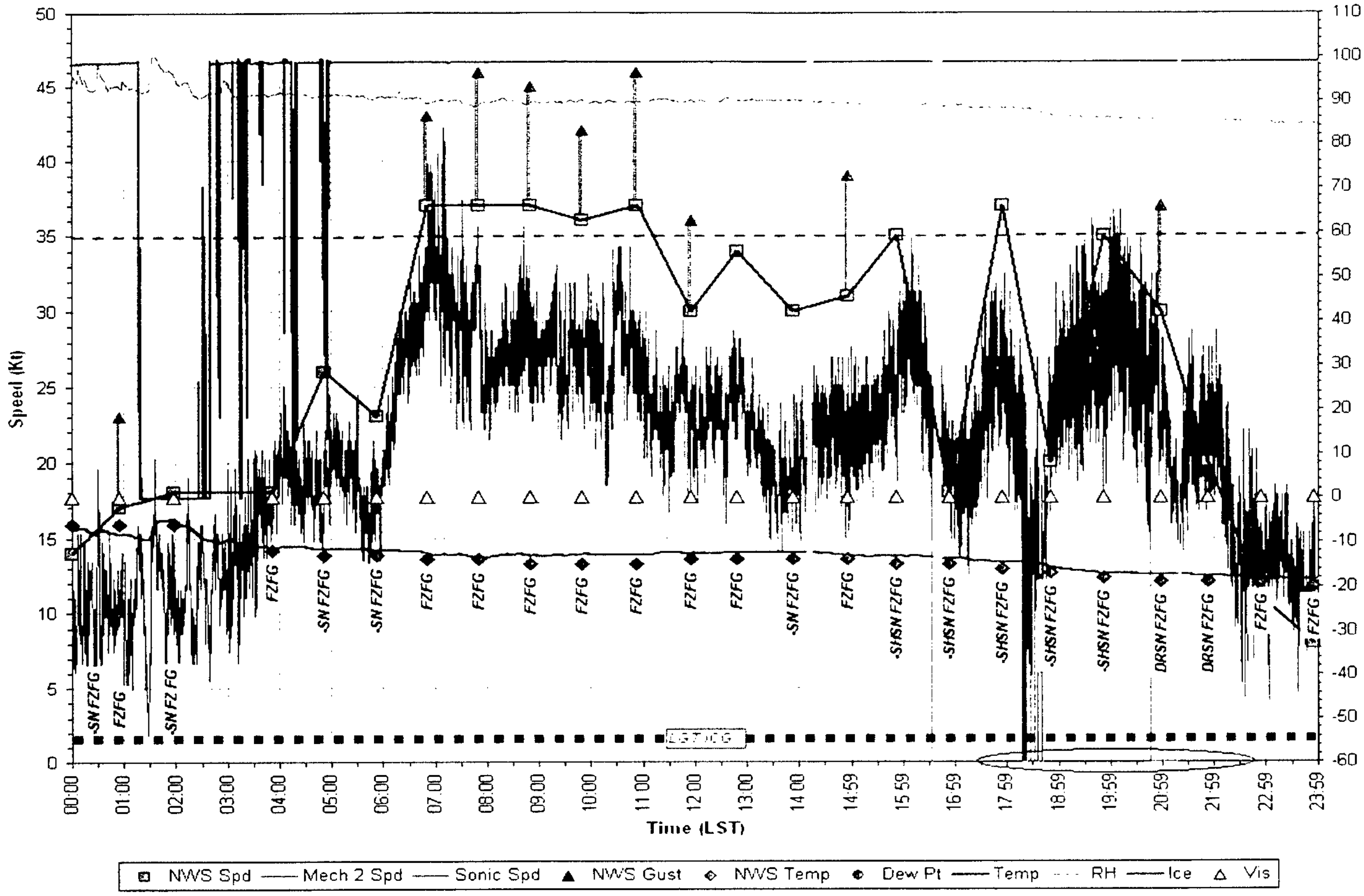
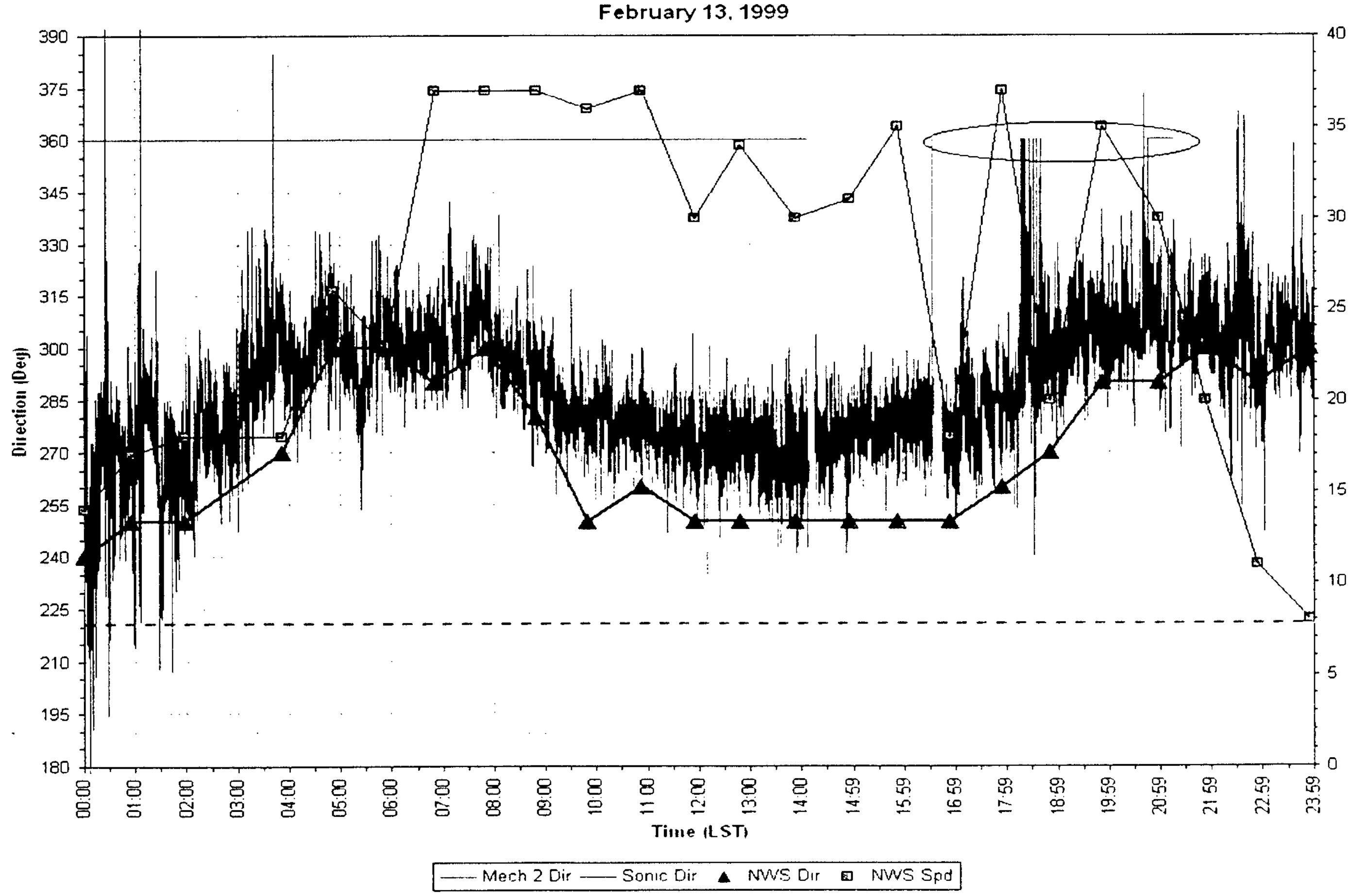
Speed (Kt)
Ice RH Temp Vis
Time (LST)
FZFG
-FZRA FZFG
-RA FG
-RA FG
-RA FG
FG
-SHRA
-SHRA
FG
FG
FG
LGT ICG, FZRA
FZRA,LGT ICG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

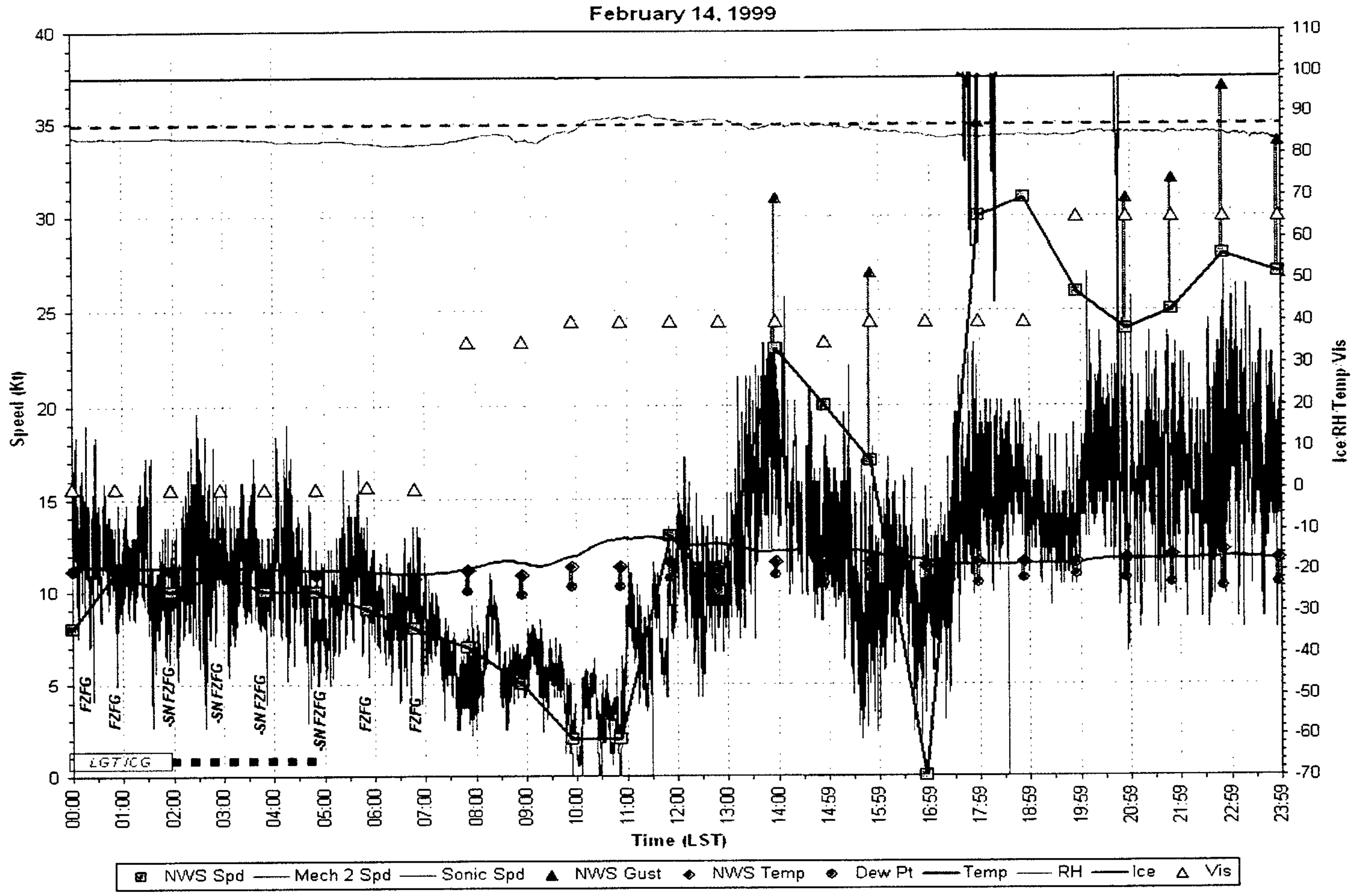

February 12, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

February 13, 1999



February 13, 1999




February 14, 1999
Speed (Kt)
Ice·RH·Temp·Vis
Time (LST)
FZFG
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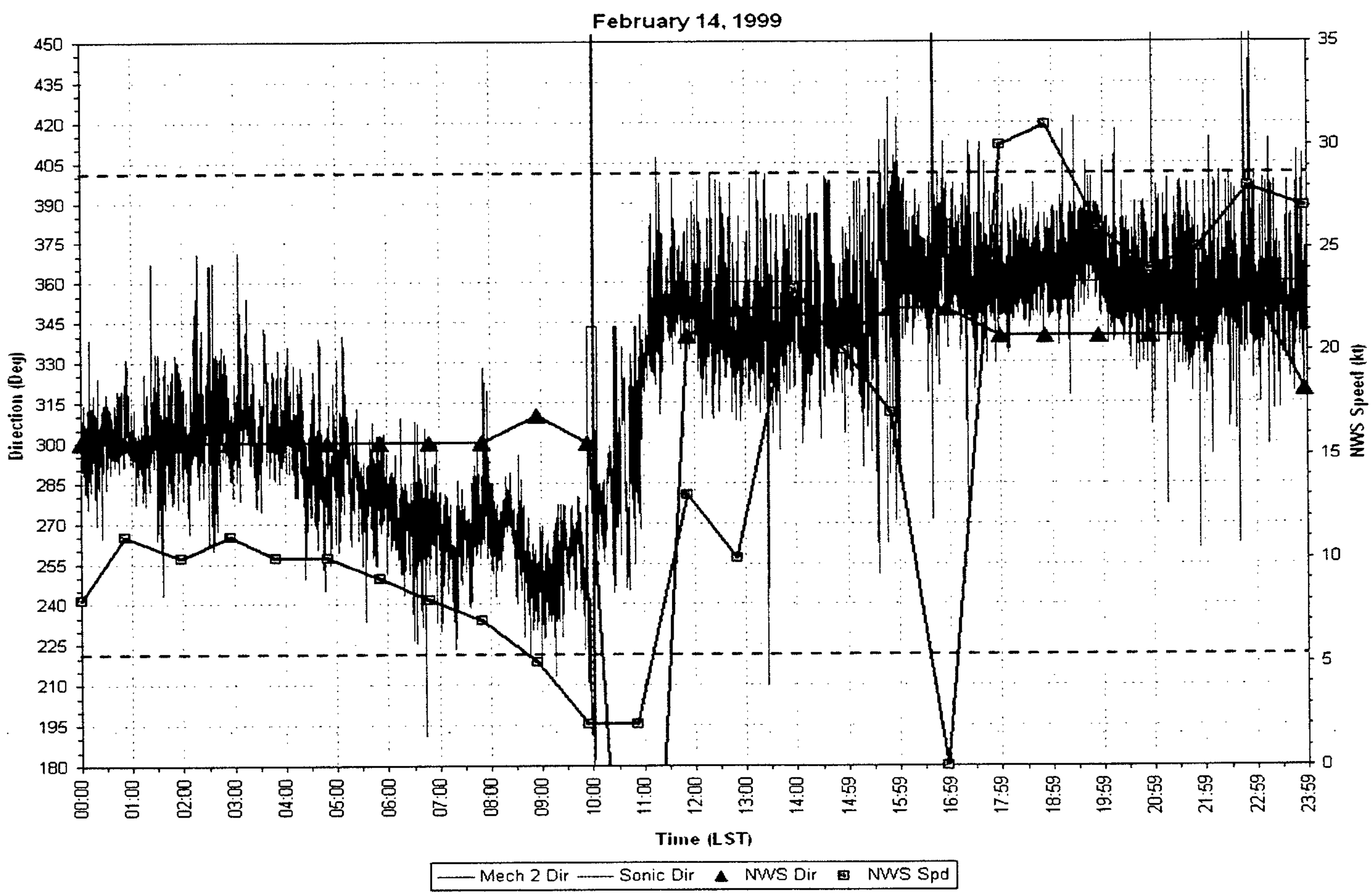
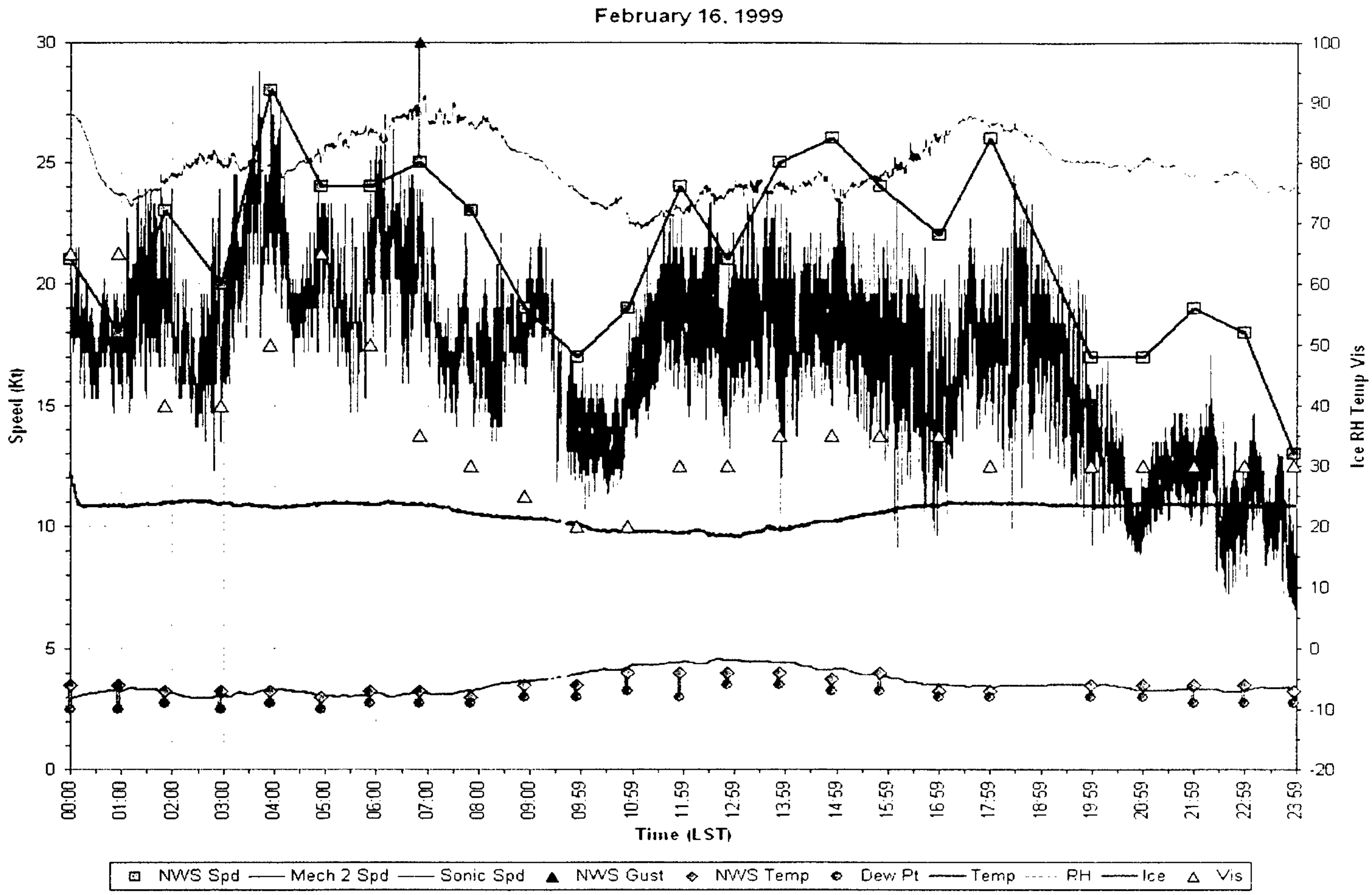
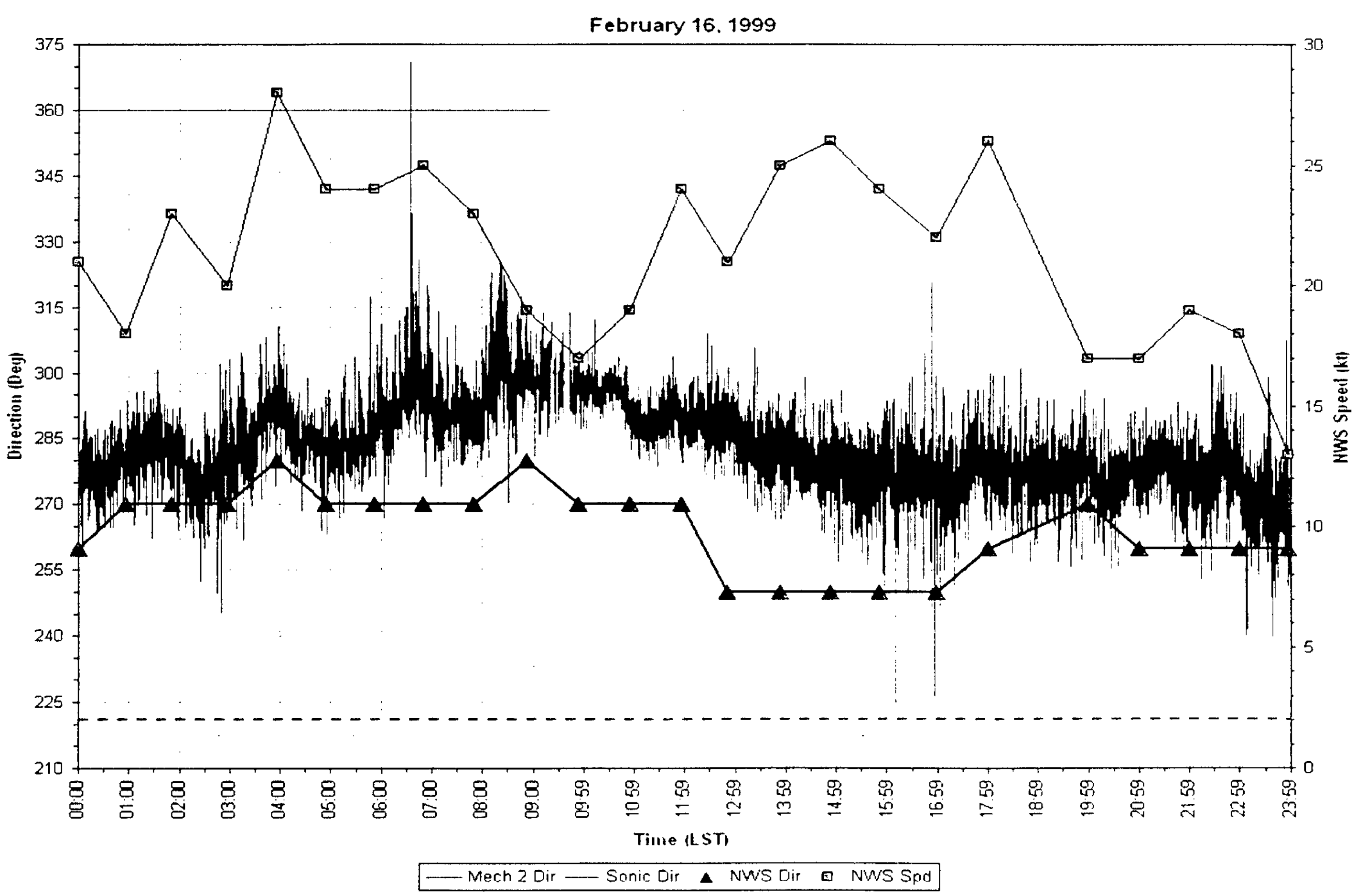
LGT ICG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis


February 14, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd


February 16, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 09:59 10:59 11:59 12:59 13:59 14:59 15:59 16:59 17:59 18:59 19:59 20:59 21:59 22:59 23:59
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis


February 16, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
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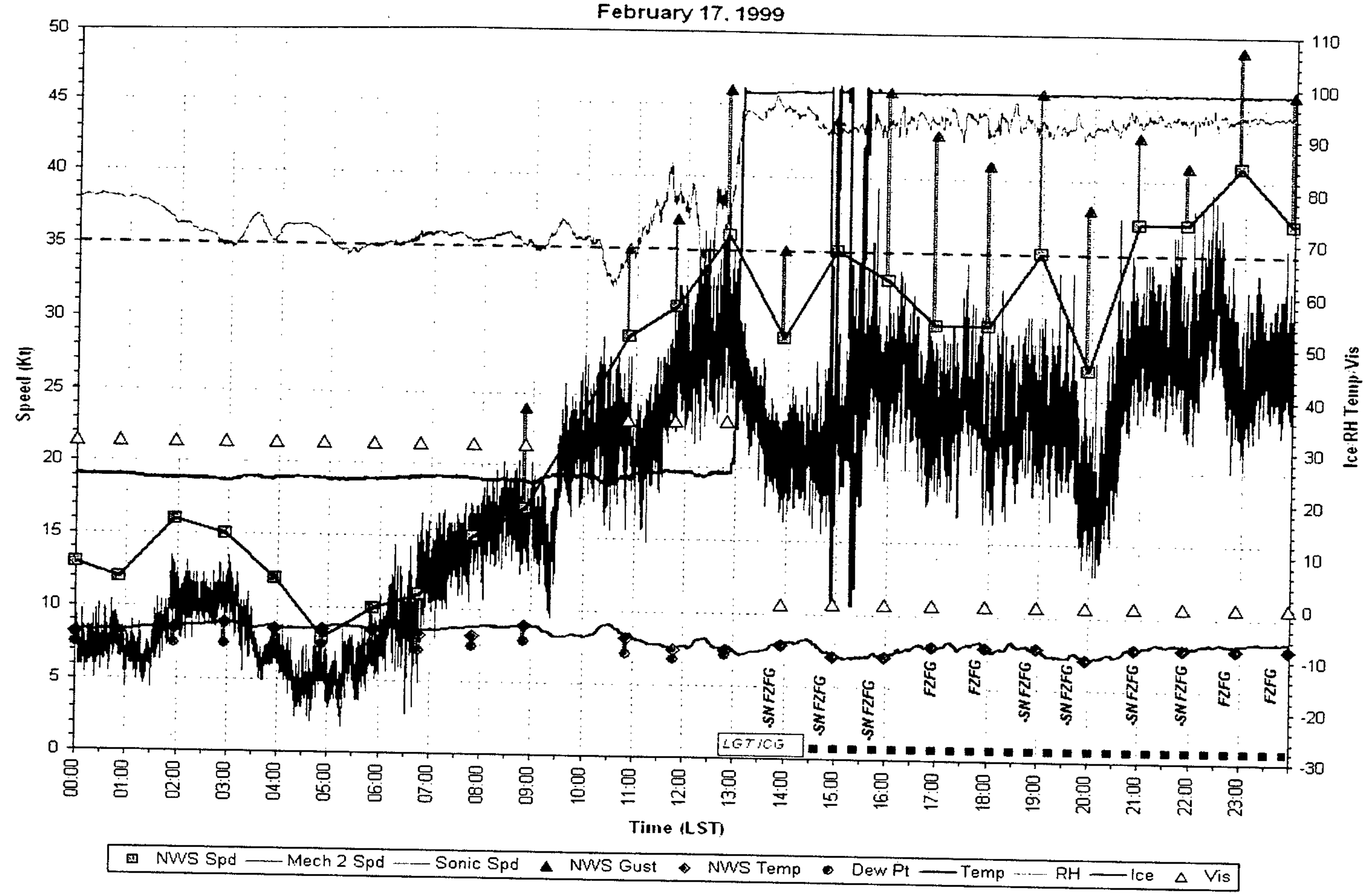
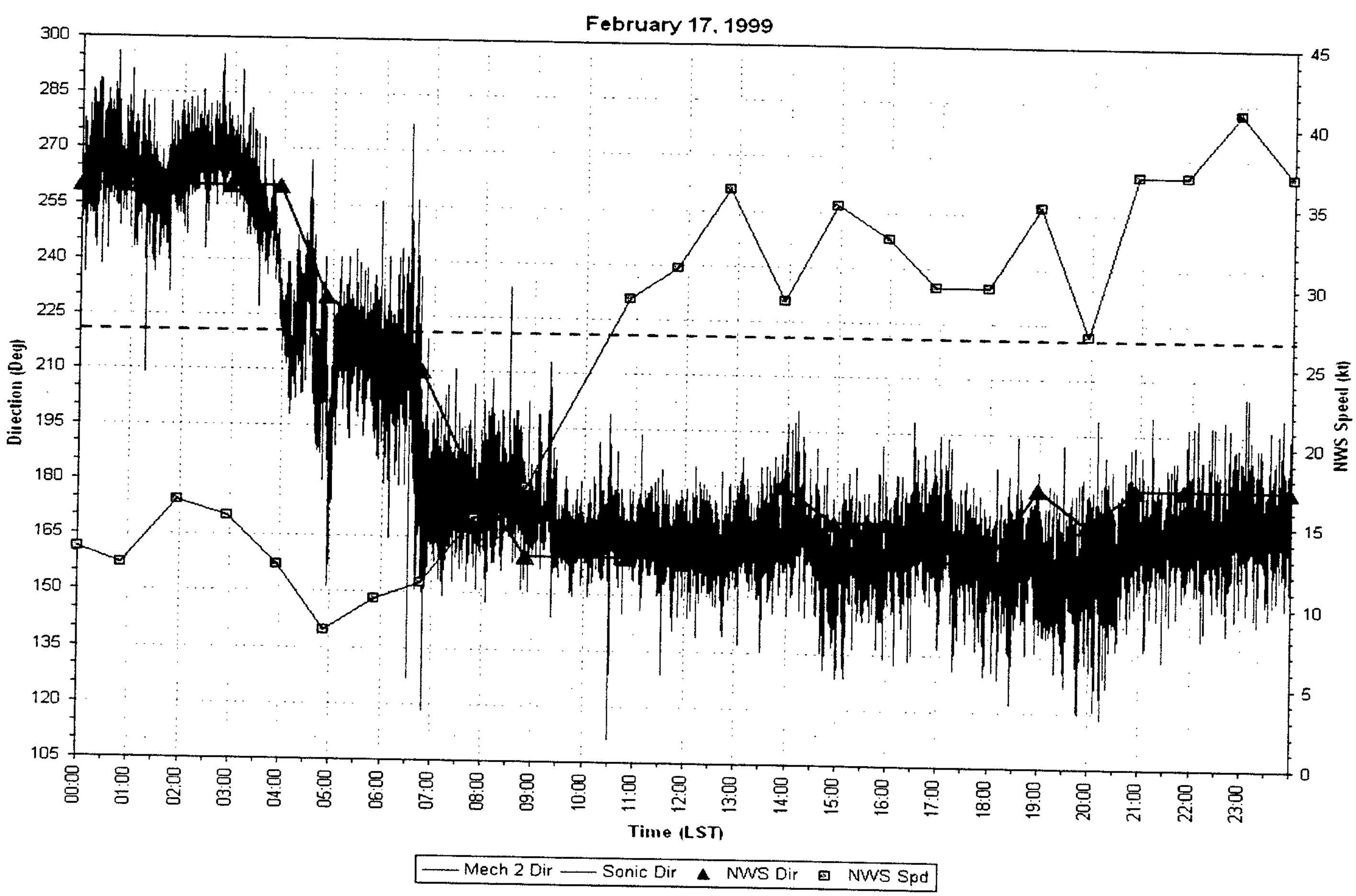
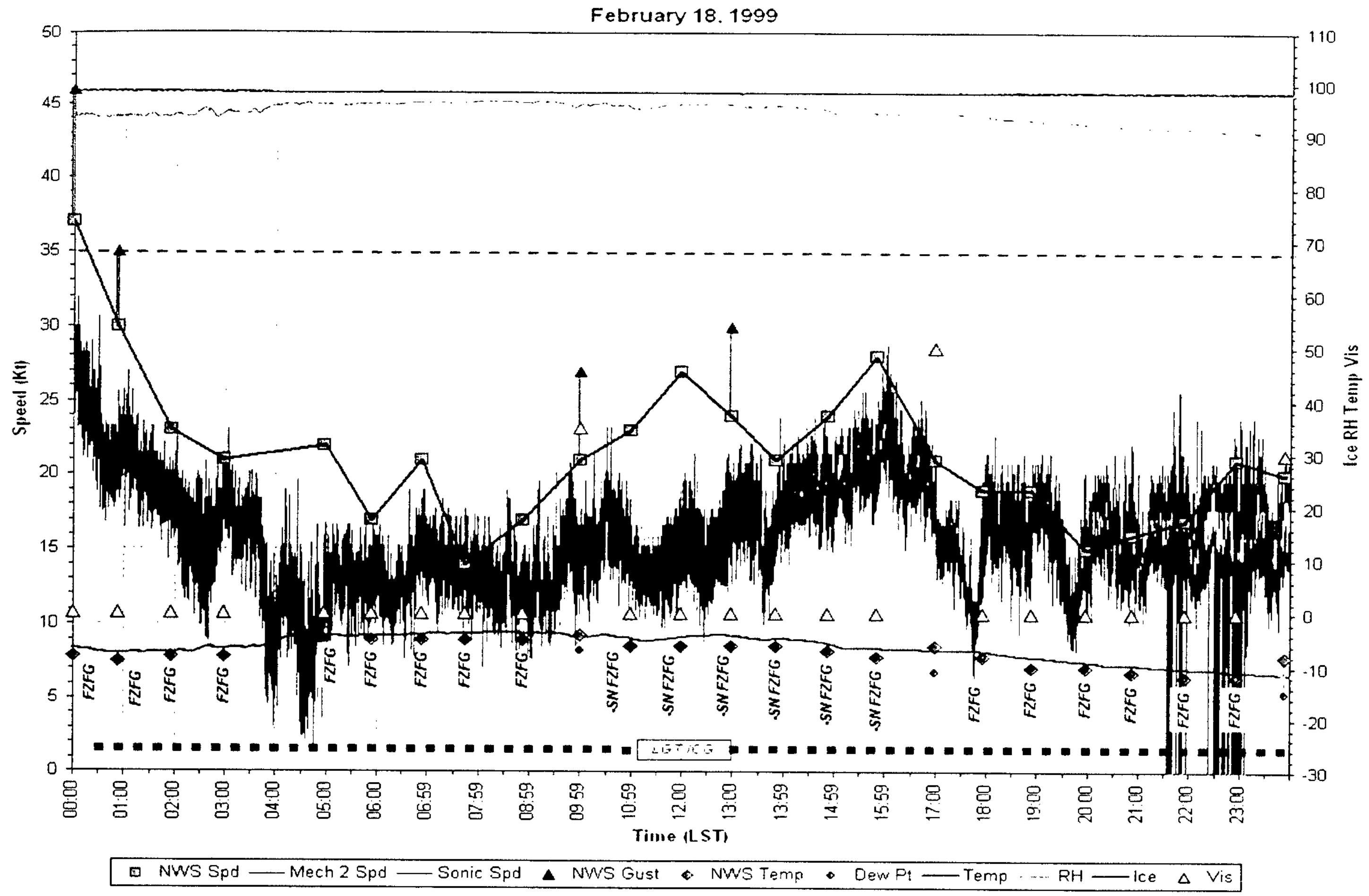
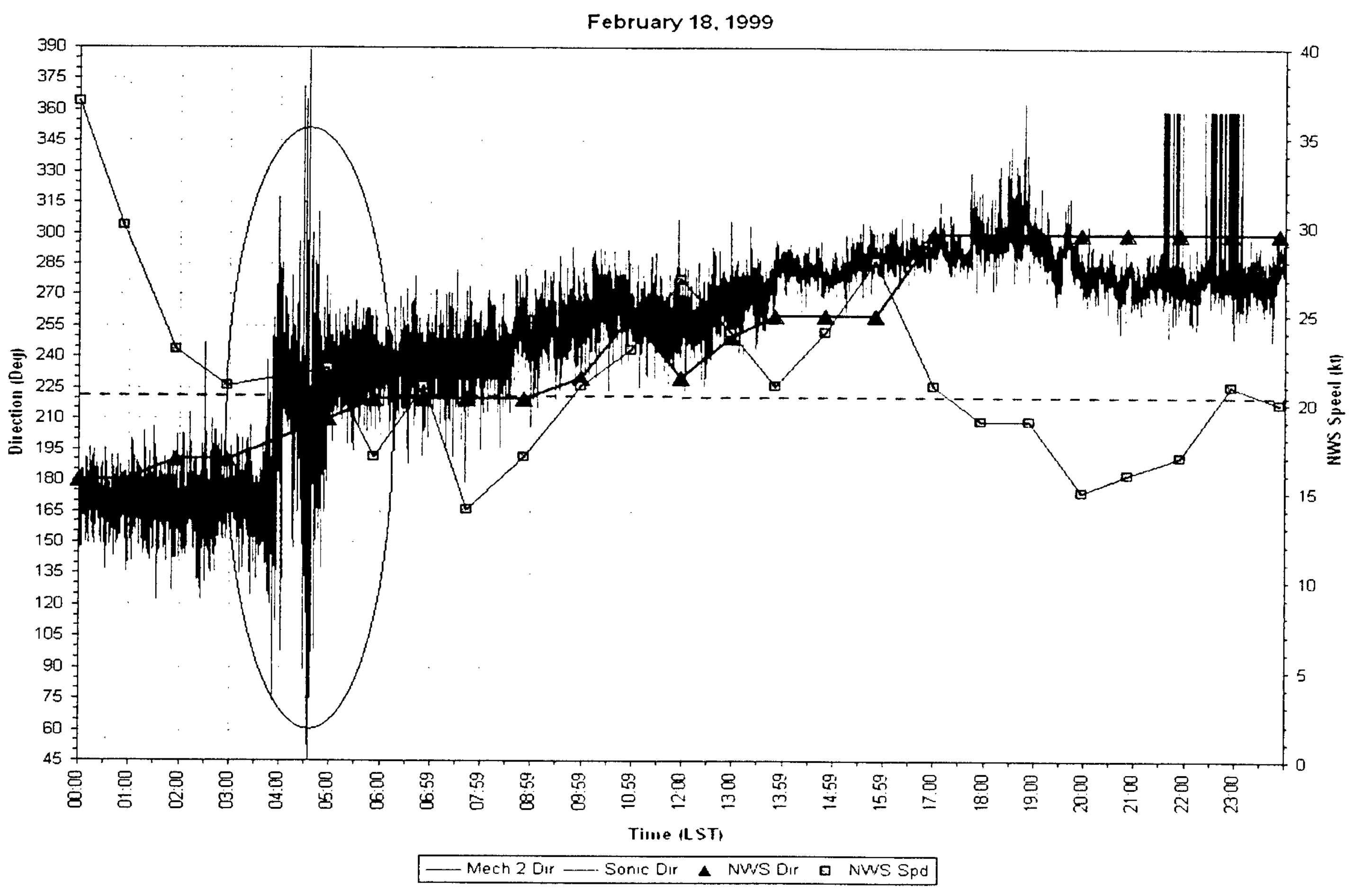
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd


February 17, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
-SN FZFG
FZFG
LGT ICG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

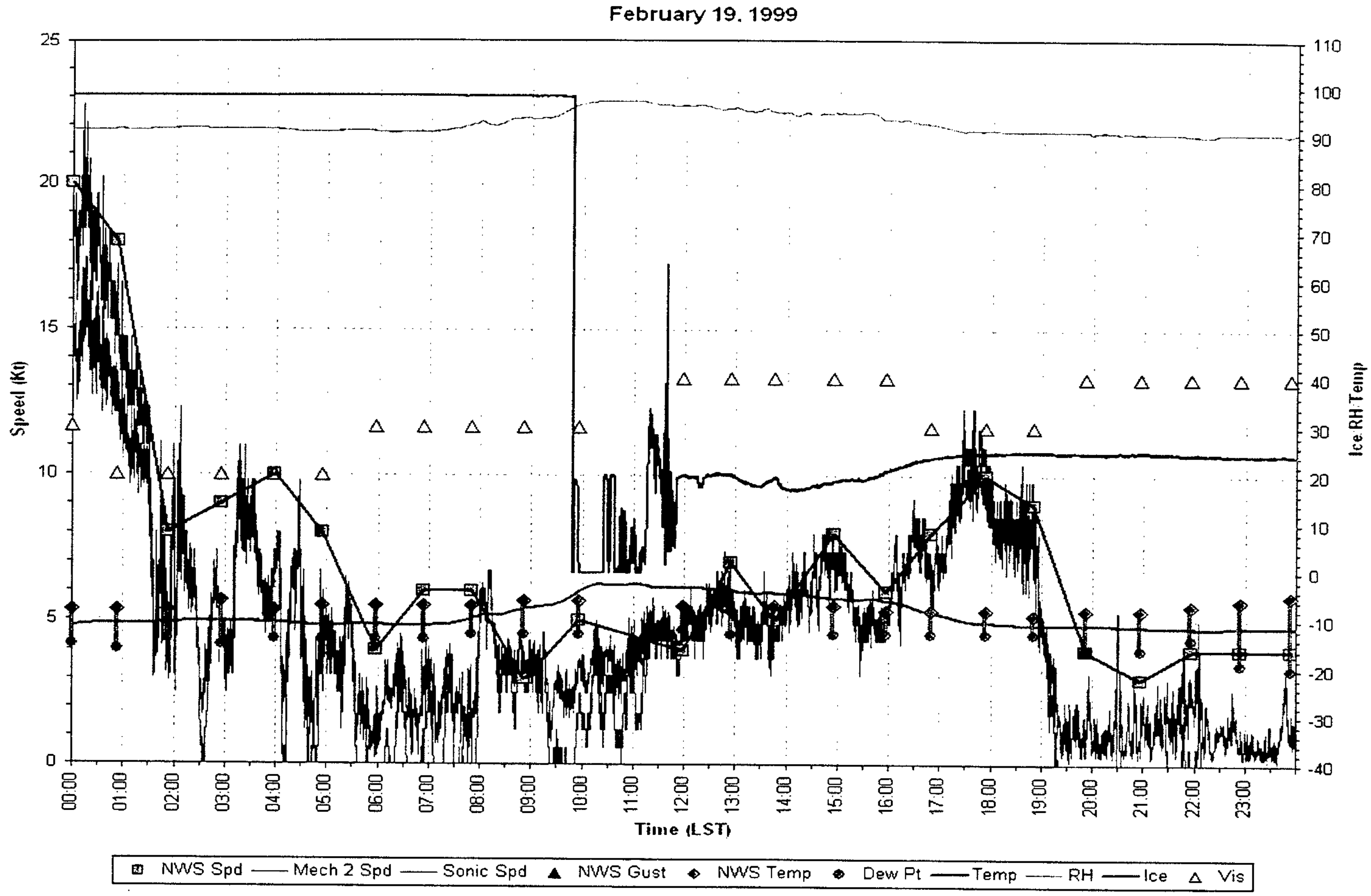

February 17, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

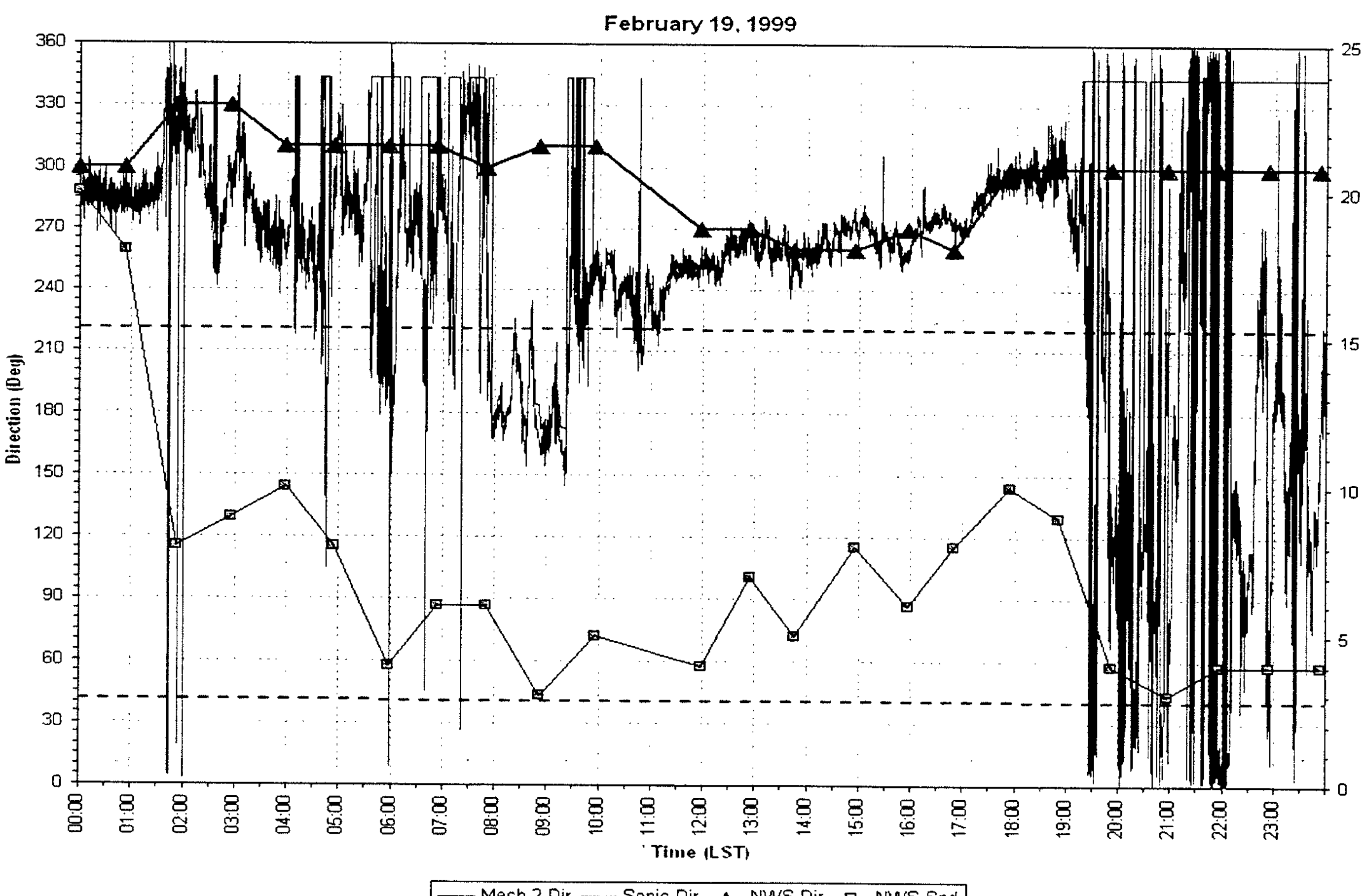


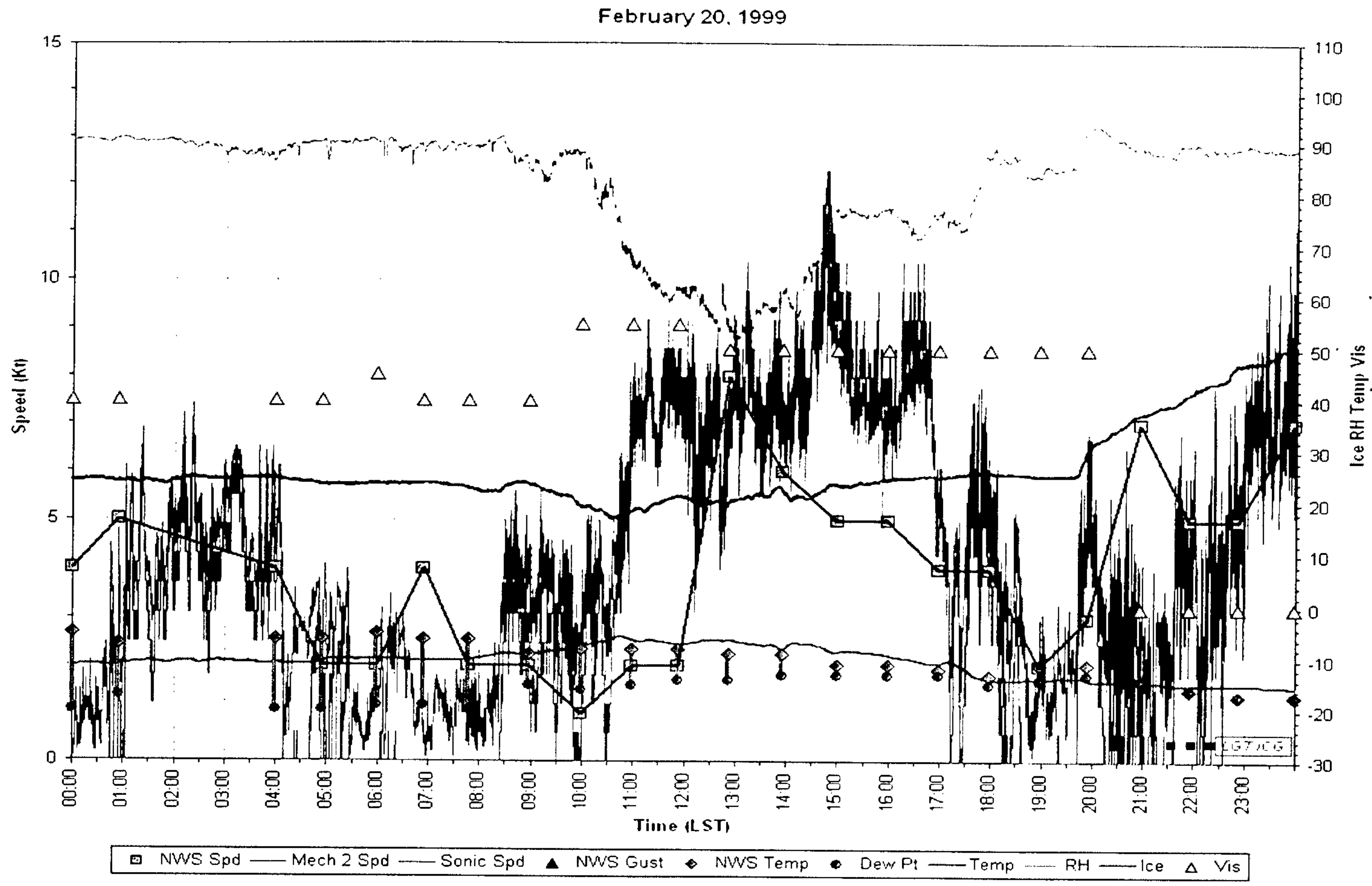
February 18, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
FZFG
-SN FZFG
LGT ICG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

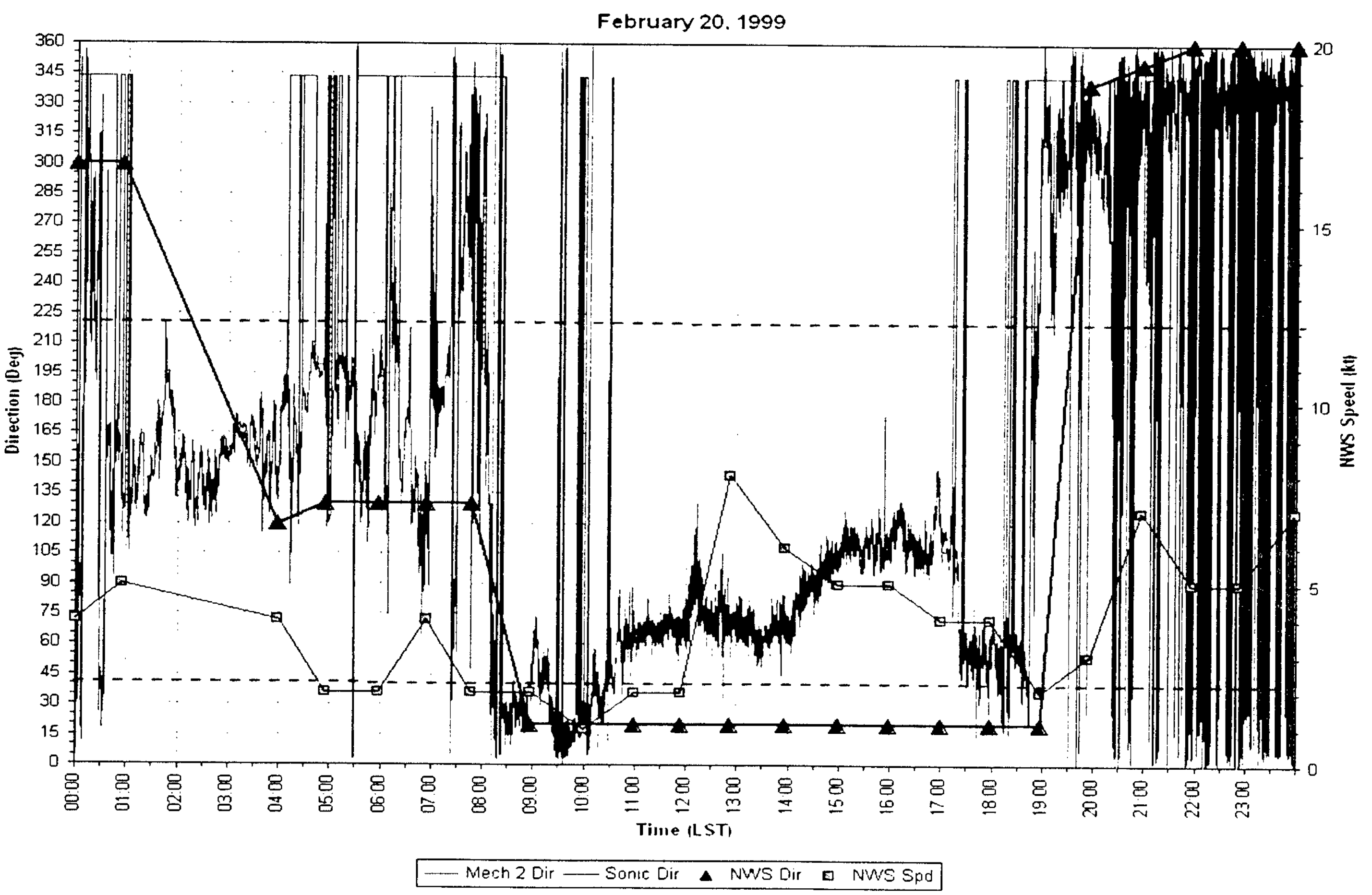


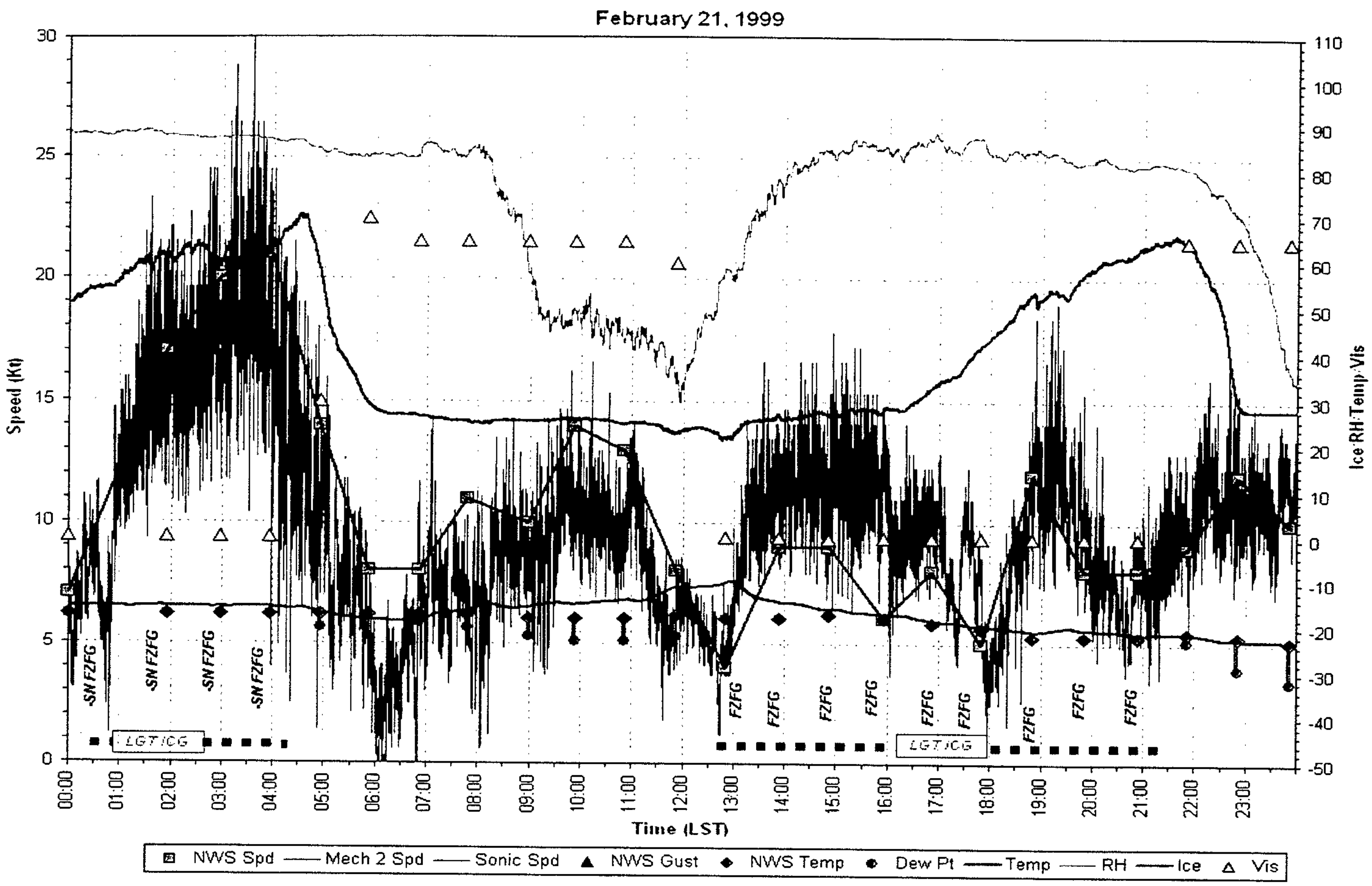
February 18, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

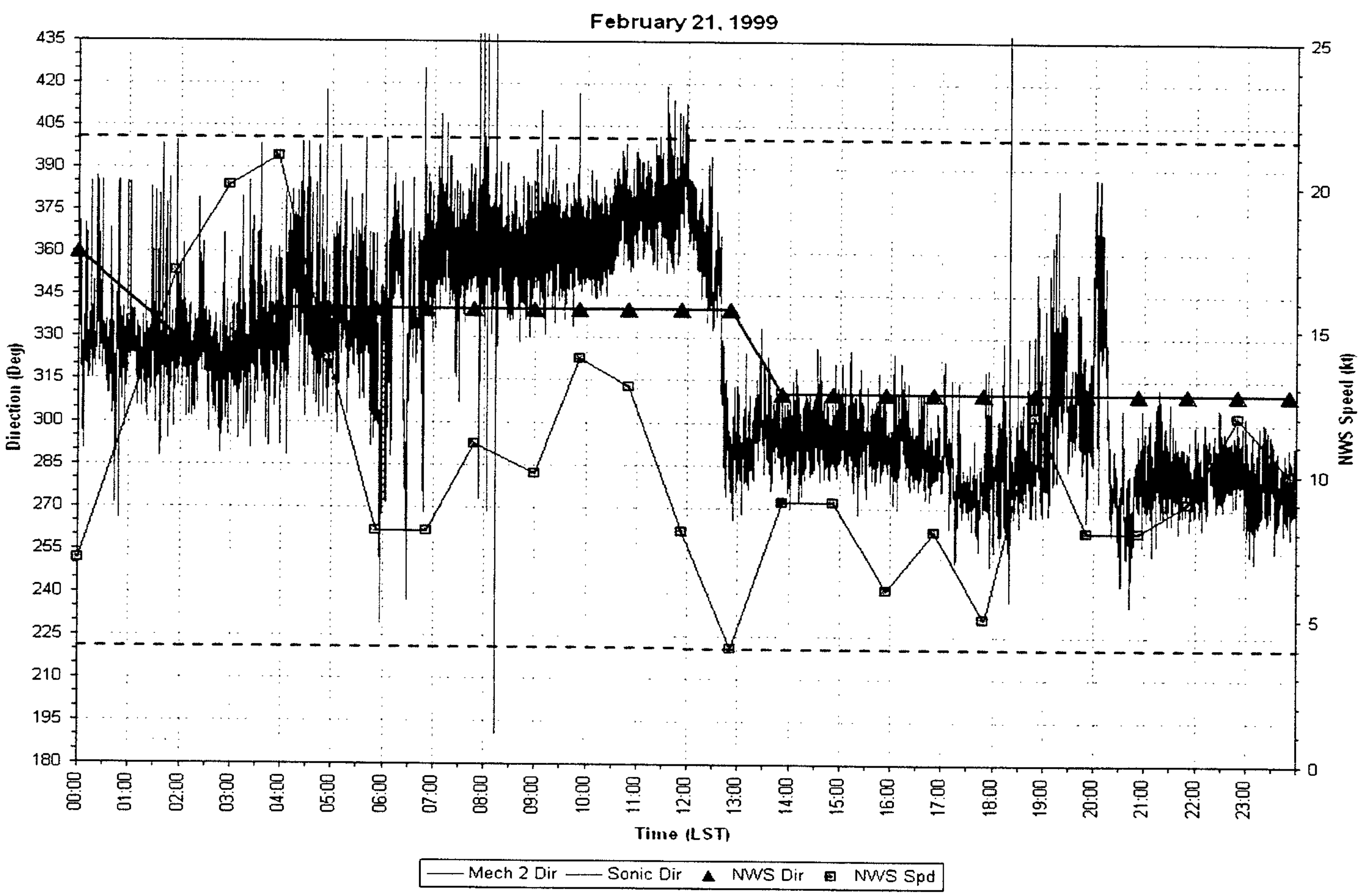

February 19, 1999
Speed (Kt)
Ice RH Temp
Time (LST)
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

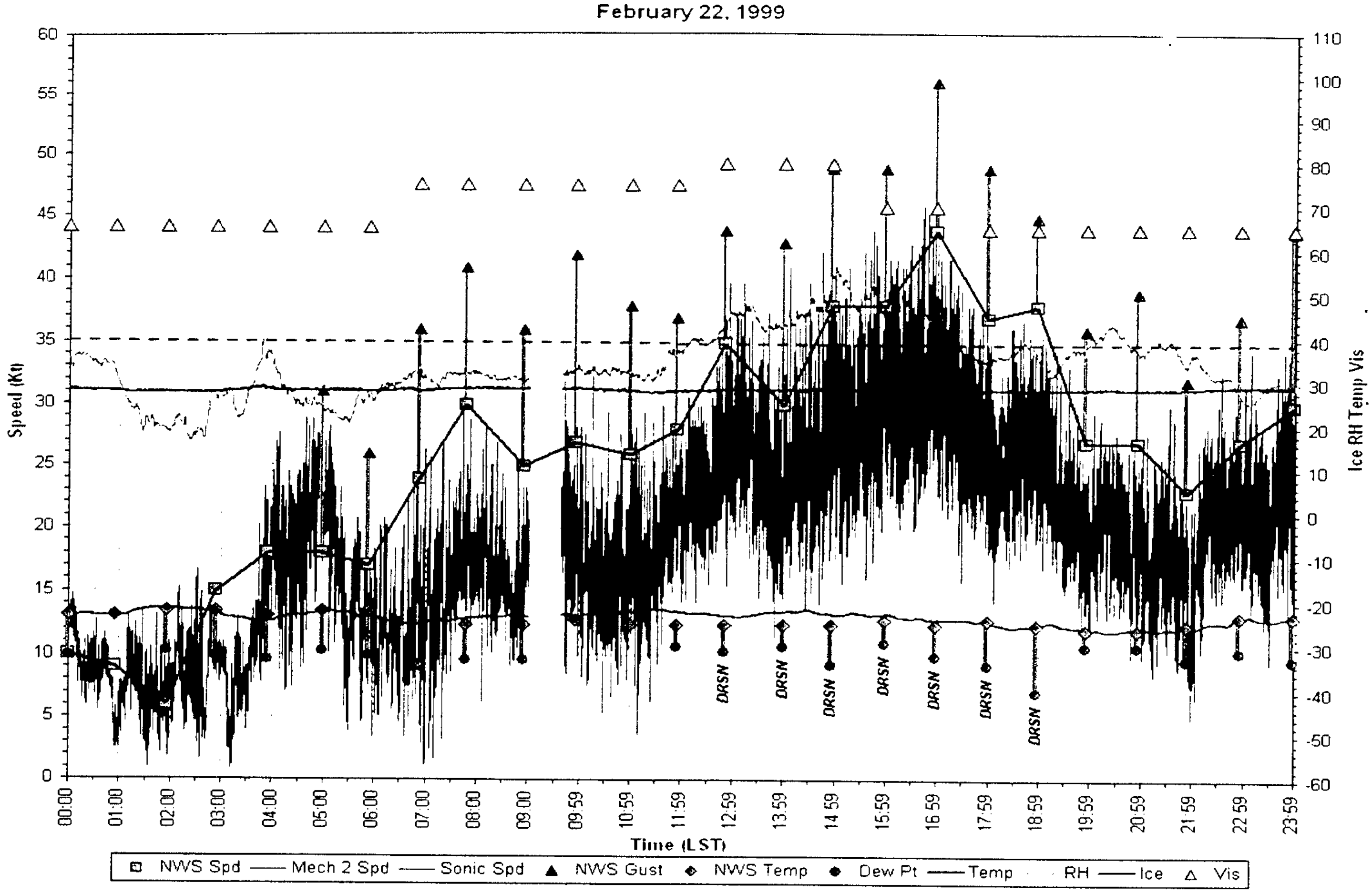

February 19, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd


February 20, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

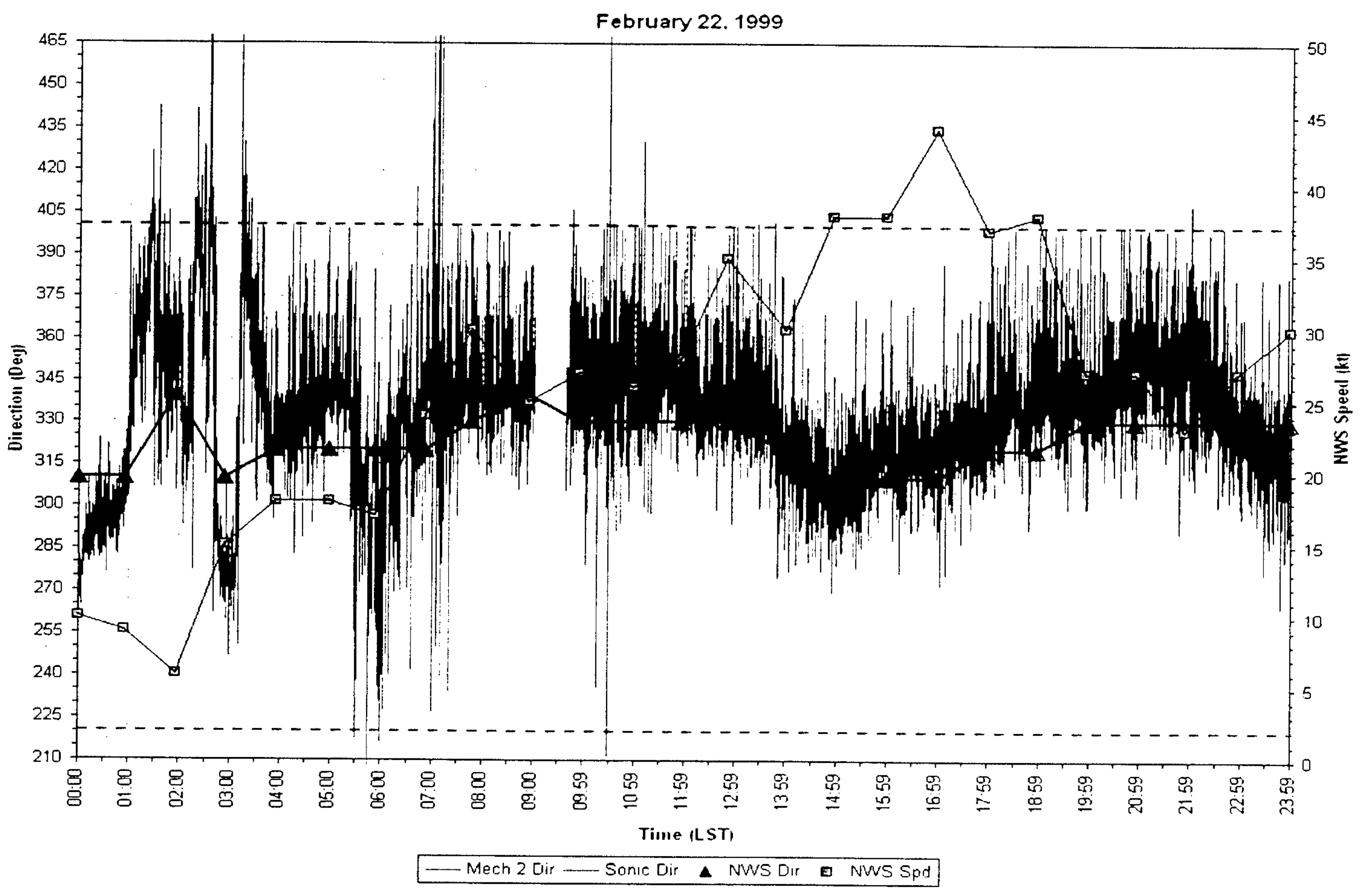

February 20, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd


February 21, 1999
Speed (Kt)
Ice·RH·Temp·Vis
-SN FZFG
FZFG
LGT ICG
Time (LST)
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

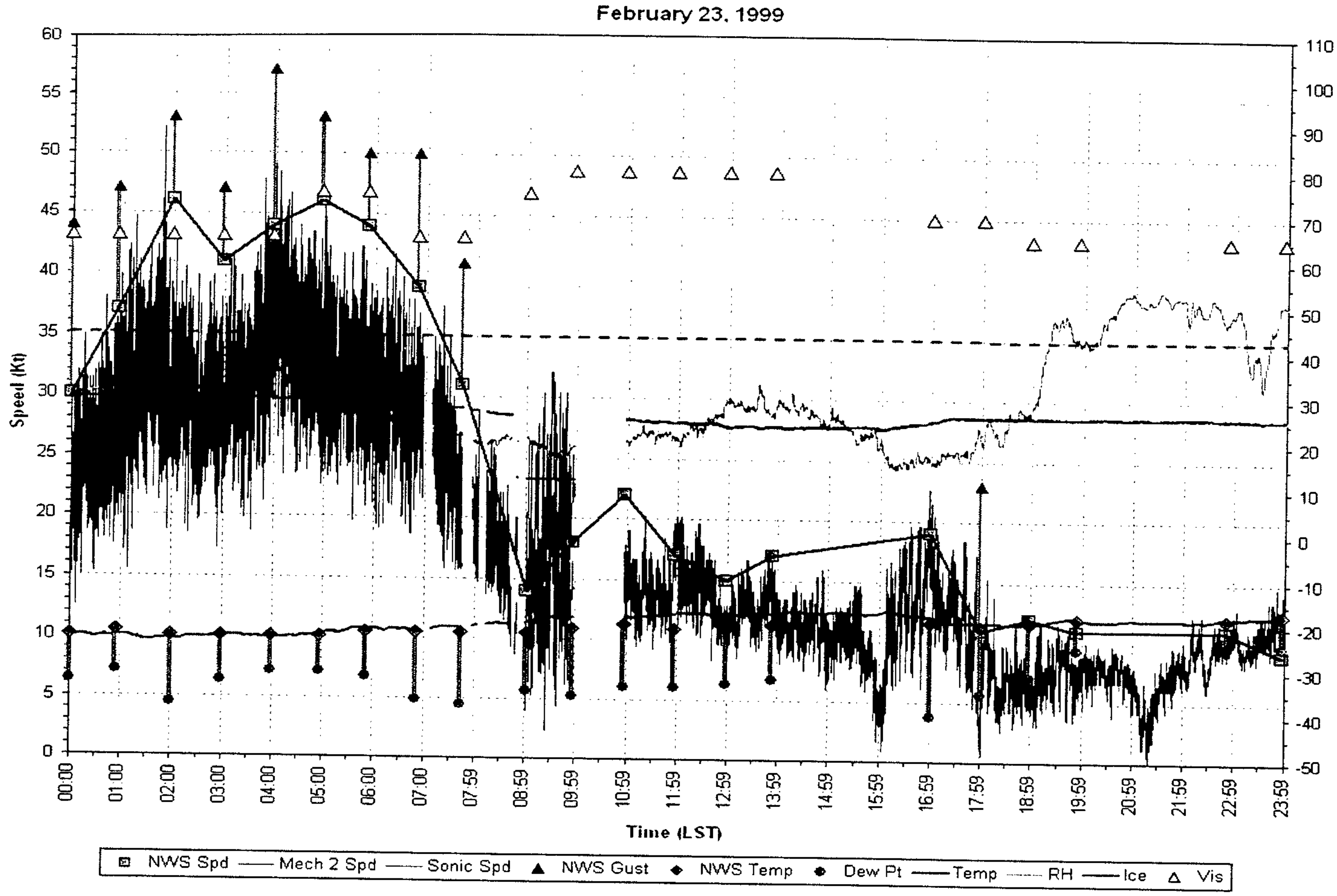

February 21, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

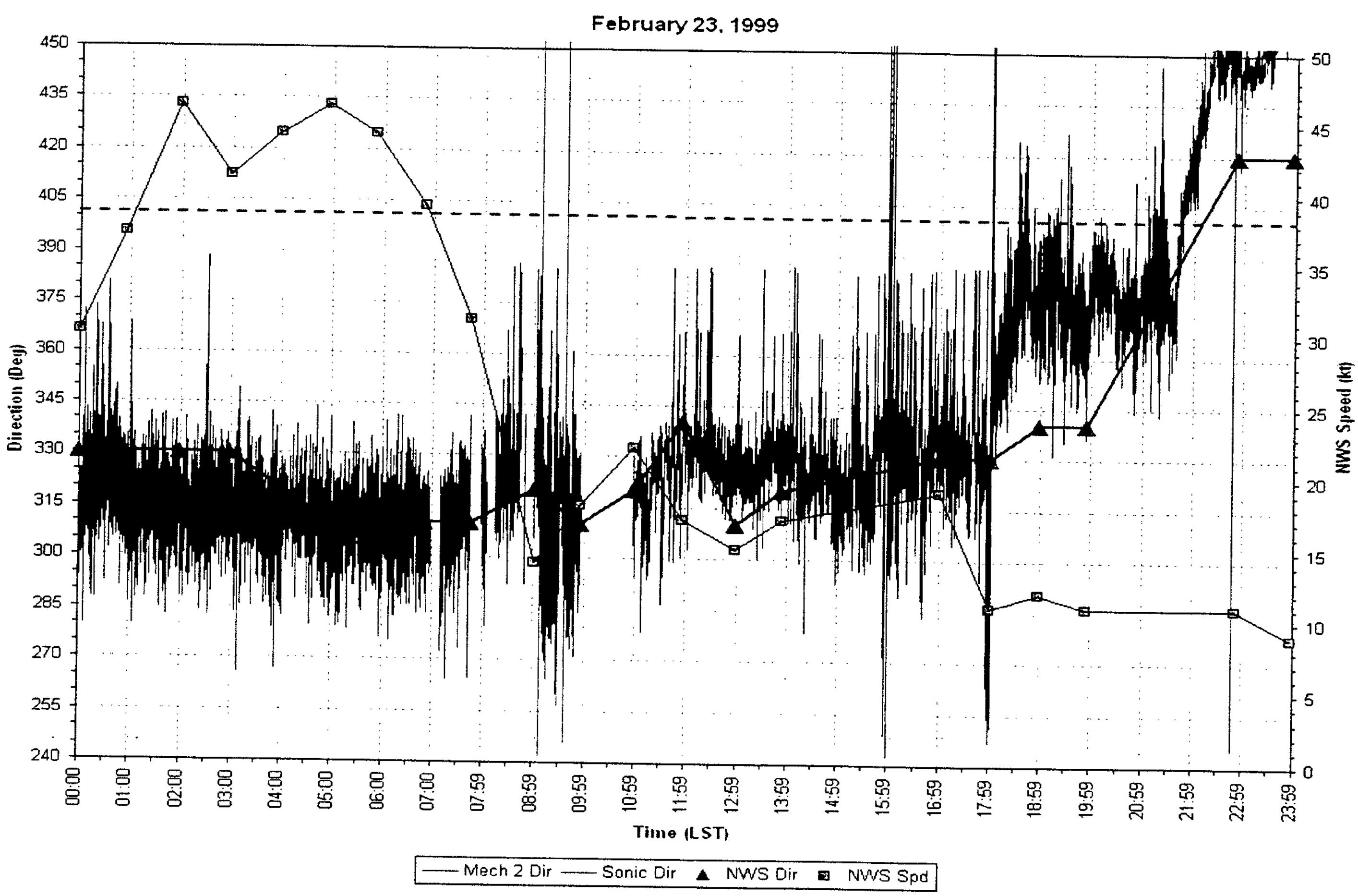


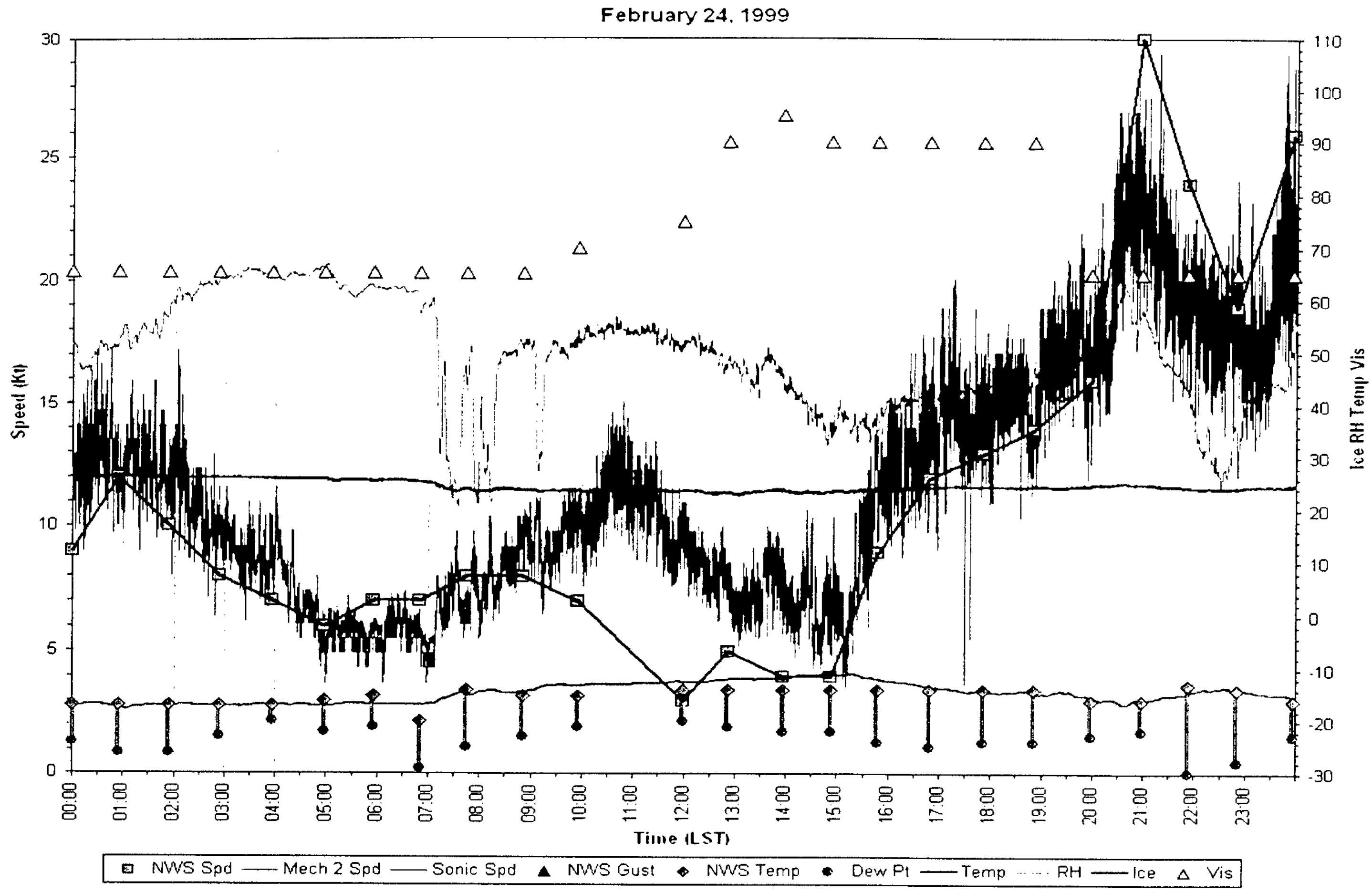
February 22, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
DRSN
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

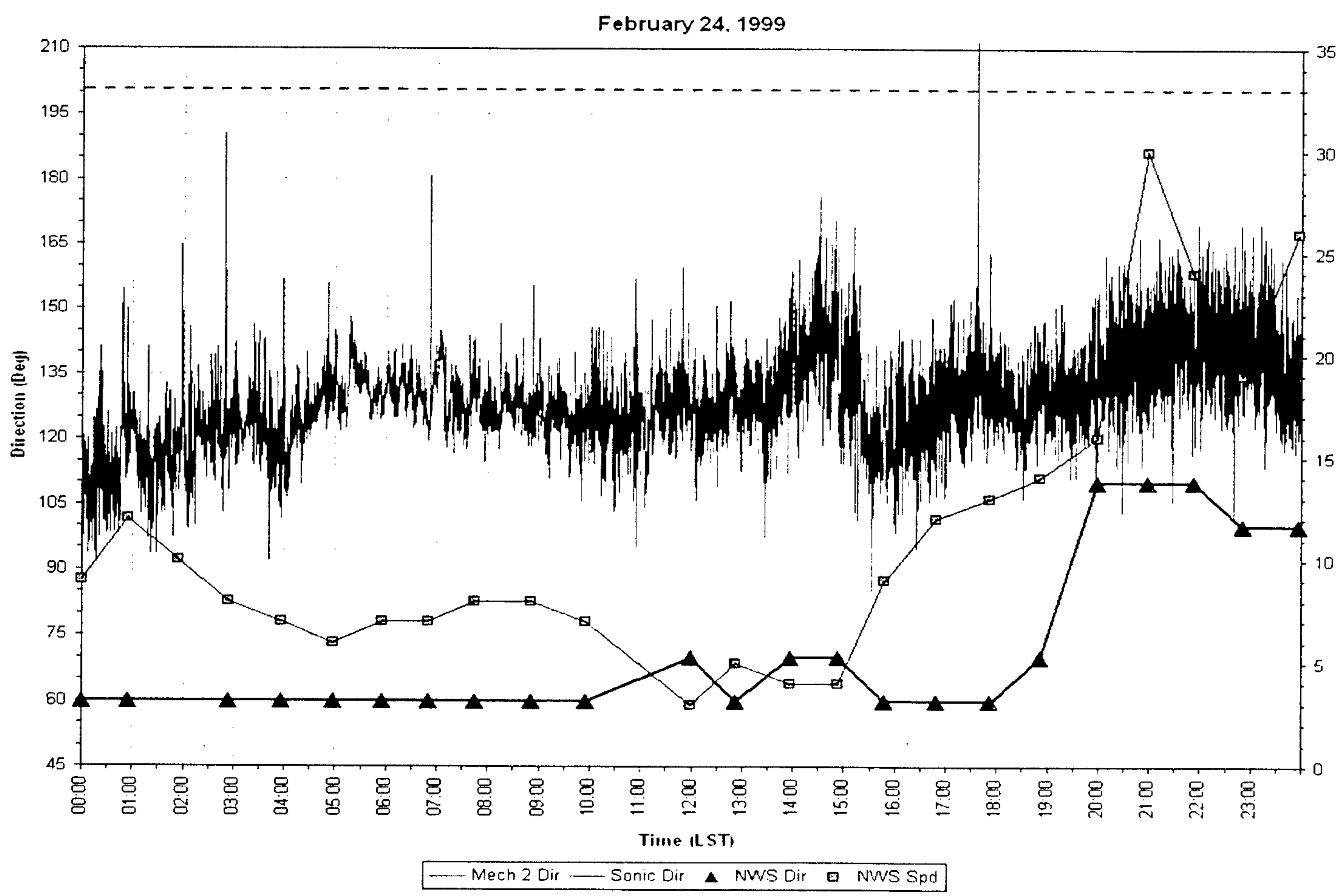


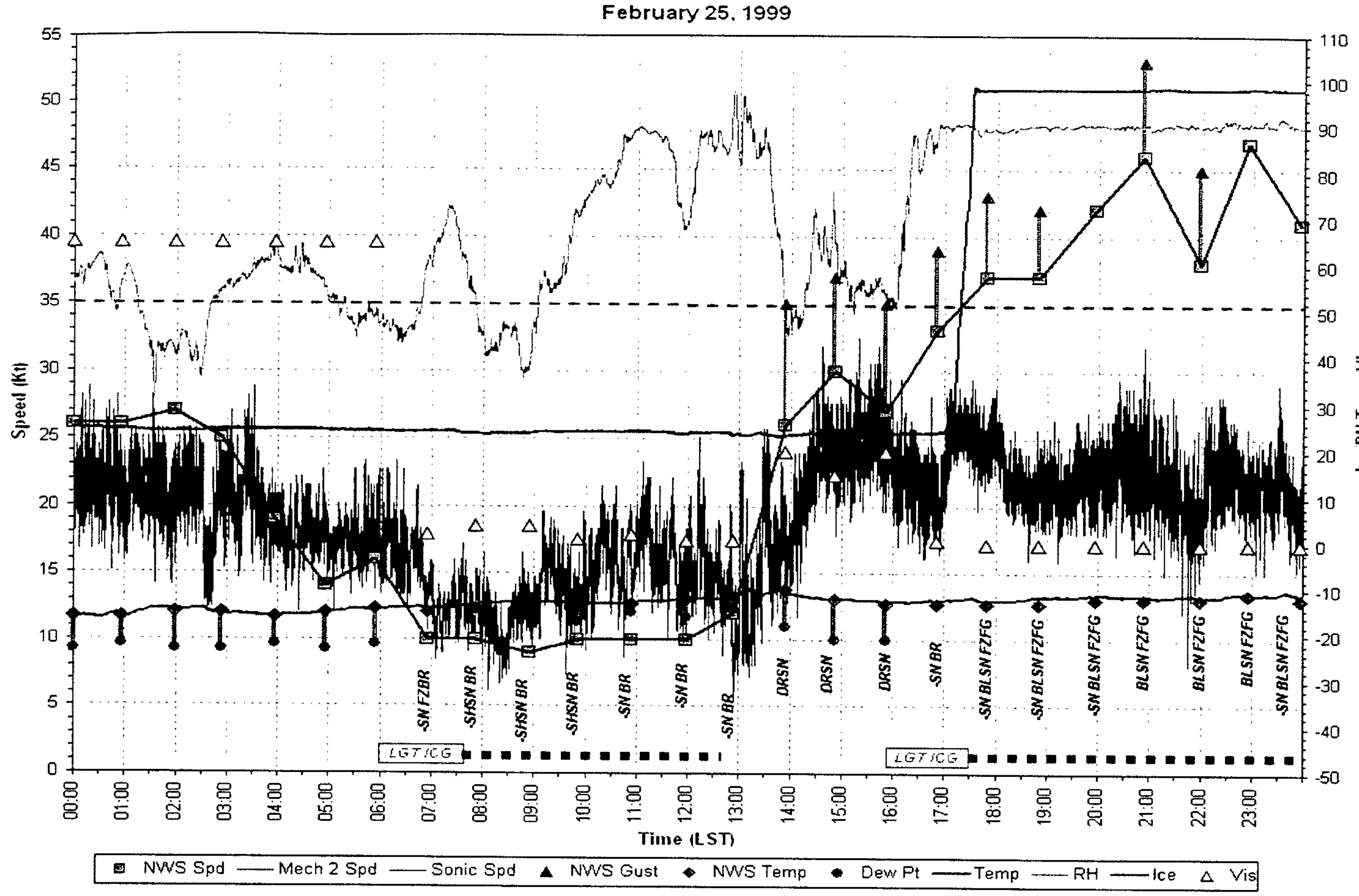
February 22, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

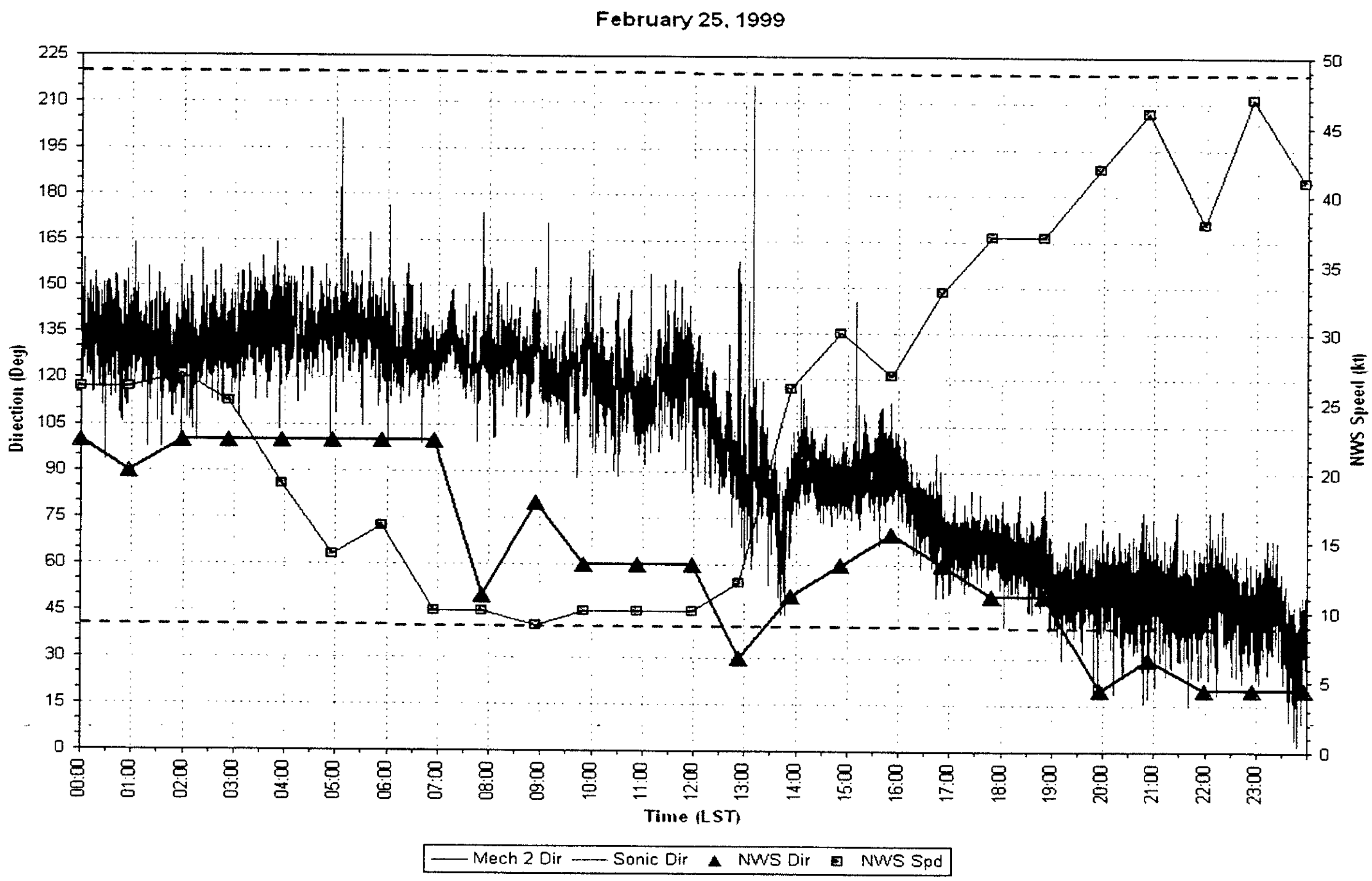

February 23, 1999
Speed (Kt)
Ice·RH·Temp·Vis
Time (LST)
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis


February 23, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

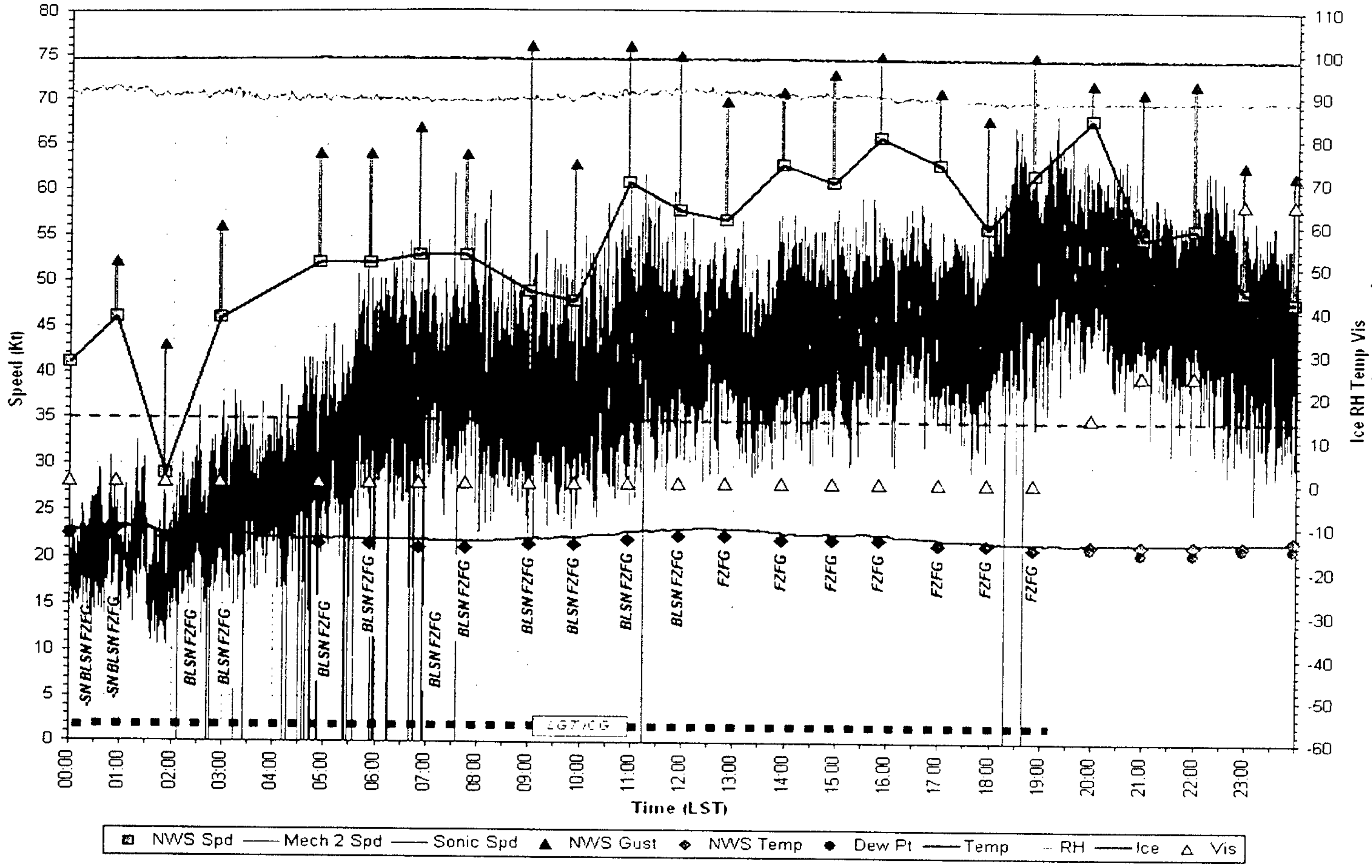

February 24, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis


February 24, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

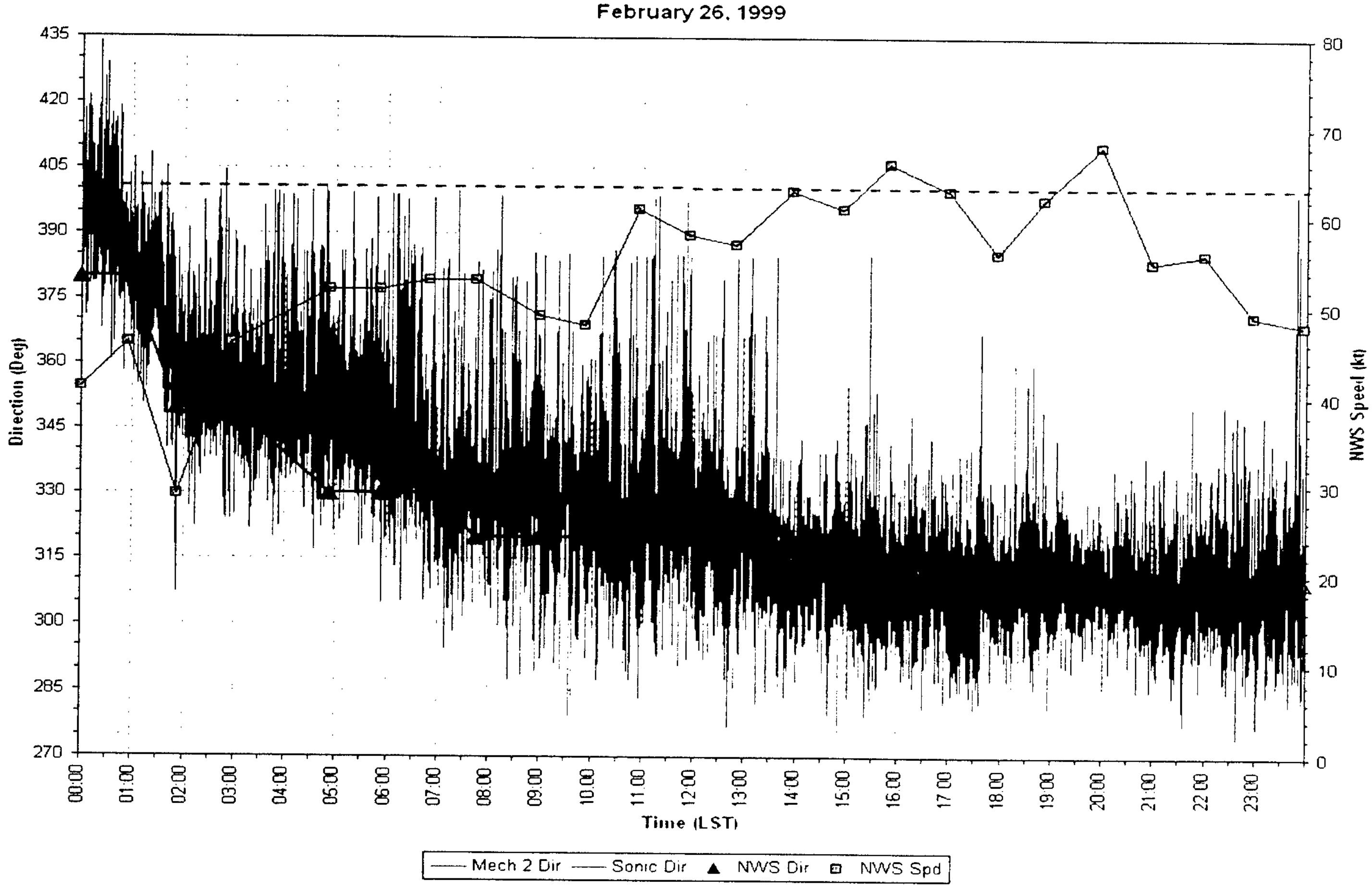

February 25, 1999
Speed (Kt)
Ice/RH Temp Vis
Time (LST)
-SN FZBR
-SHSN BR
-SHSN BR
-SHSN BR
-SN BR
-SN BR
-SN BR
DRSN
DRSN
DRSN
-SN BR
-SN BLSN FZFG
-SN BLSN FZFG
-SN BLSN FZFG
BLSN FZFG
BLSN FZFG
BLSN FZFG
-SN BLSN FZFG
LGT ICG
LGT ICG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

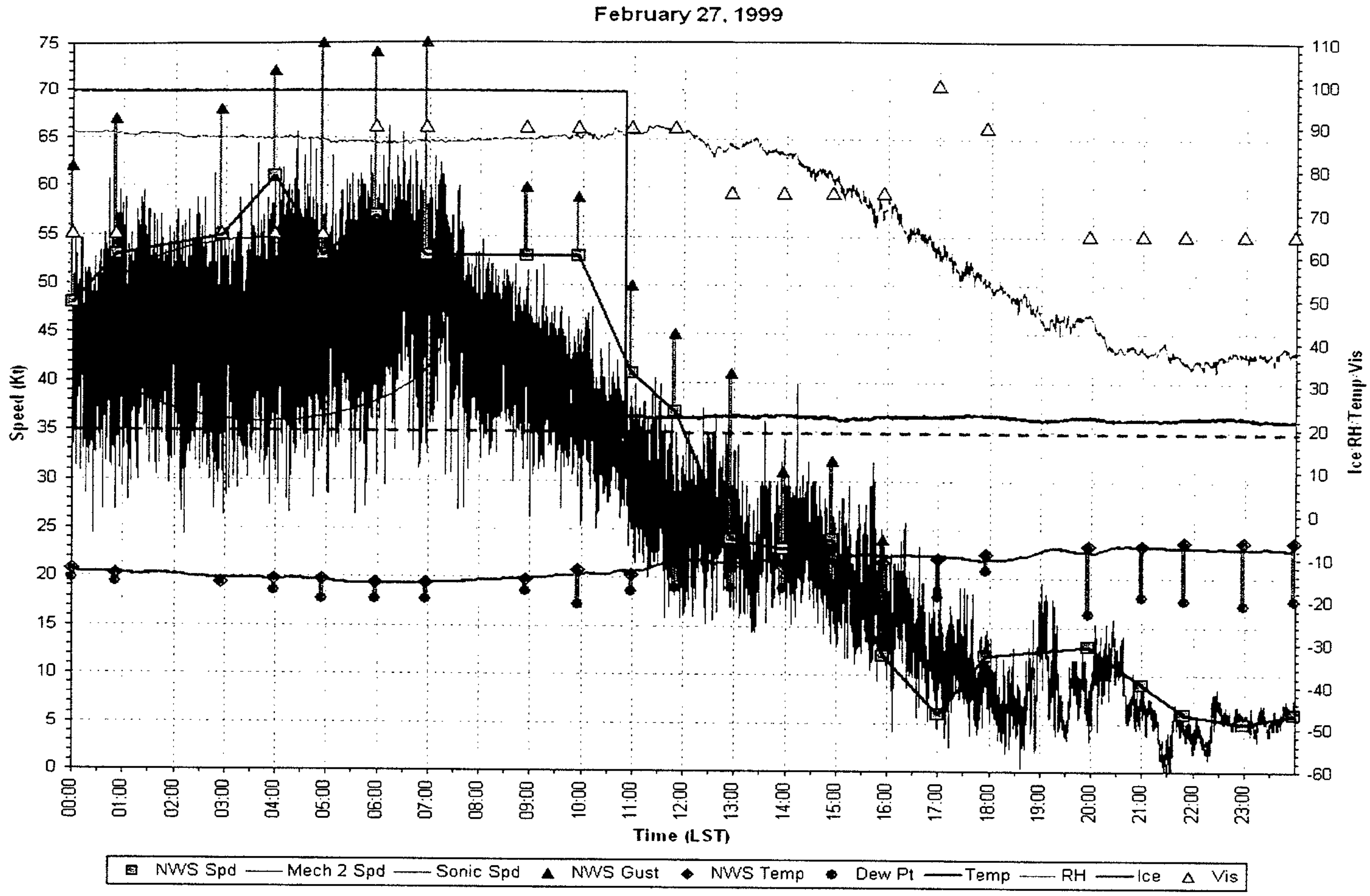

February 25, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

February 26, 1999

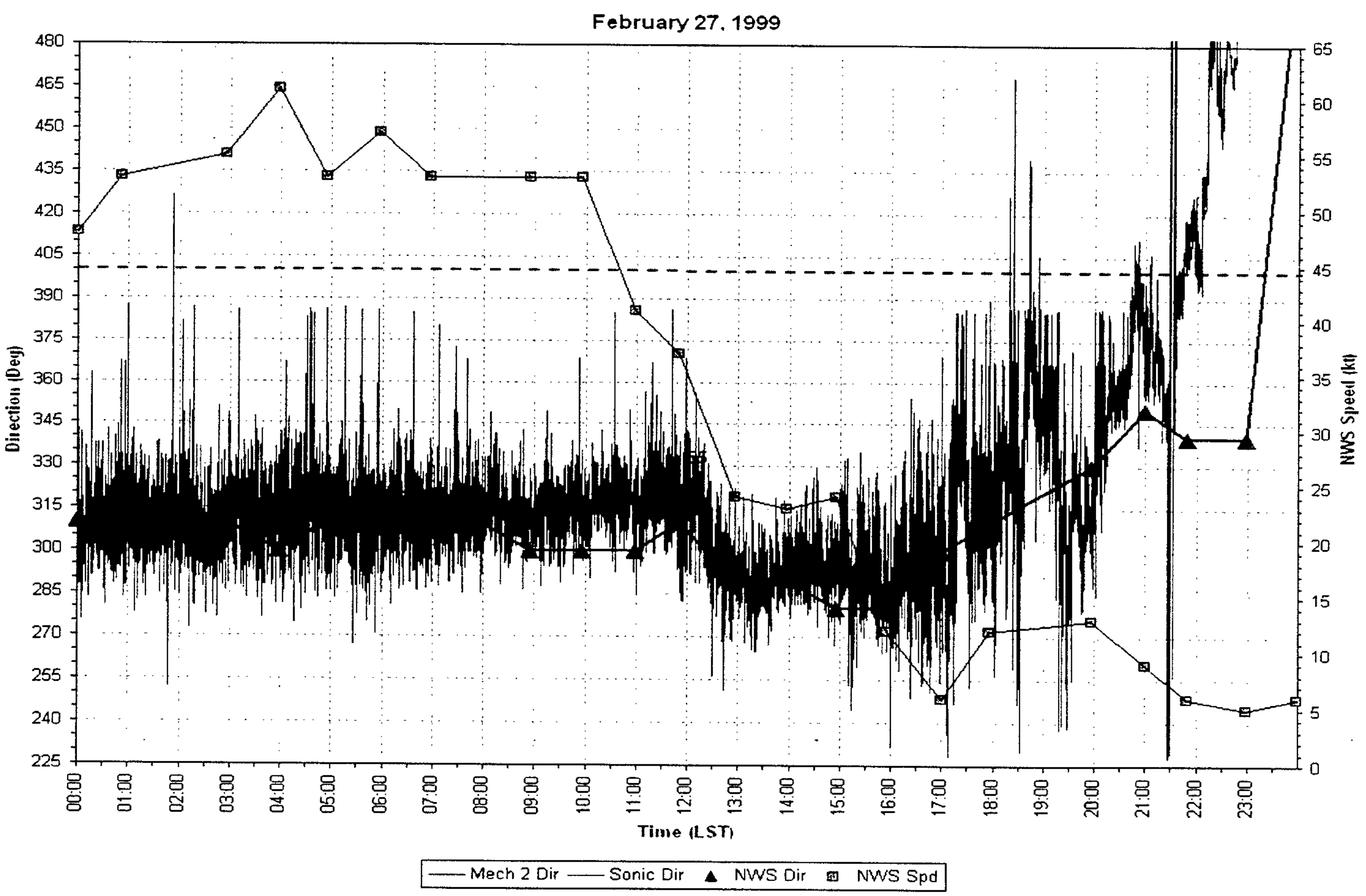


February 26, 1999

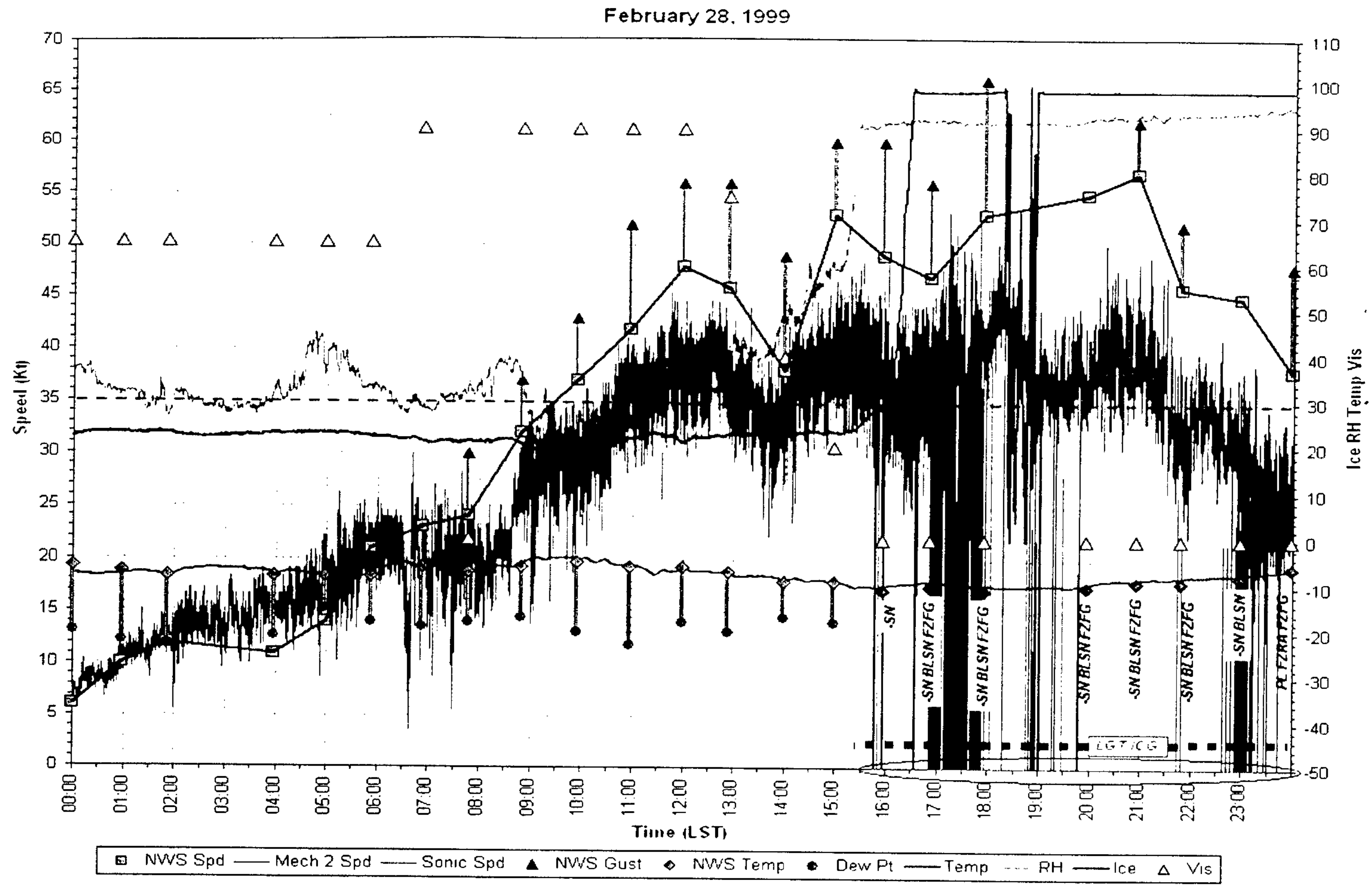




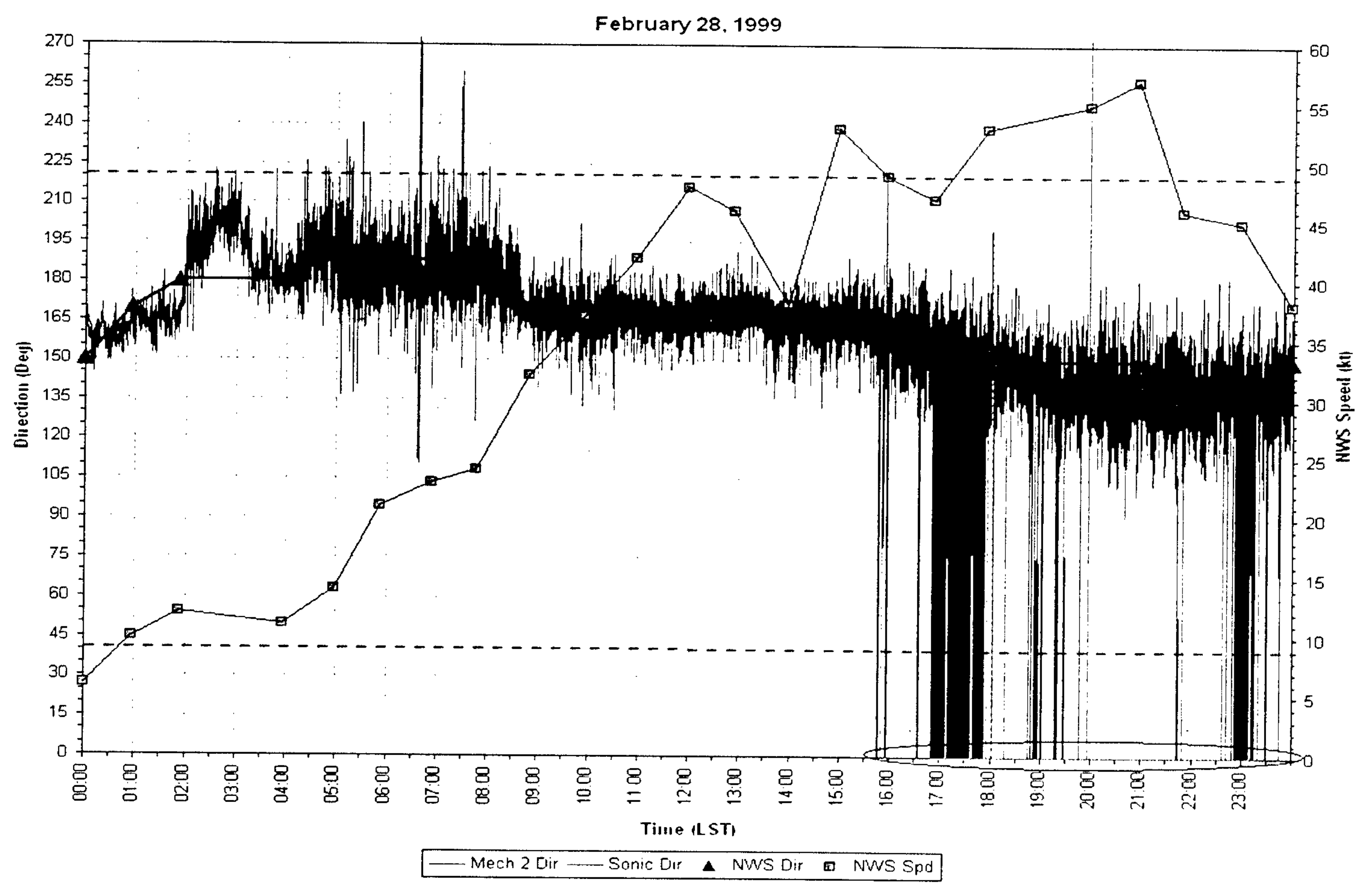
February 27, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis



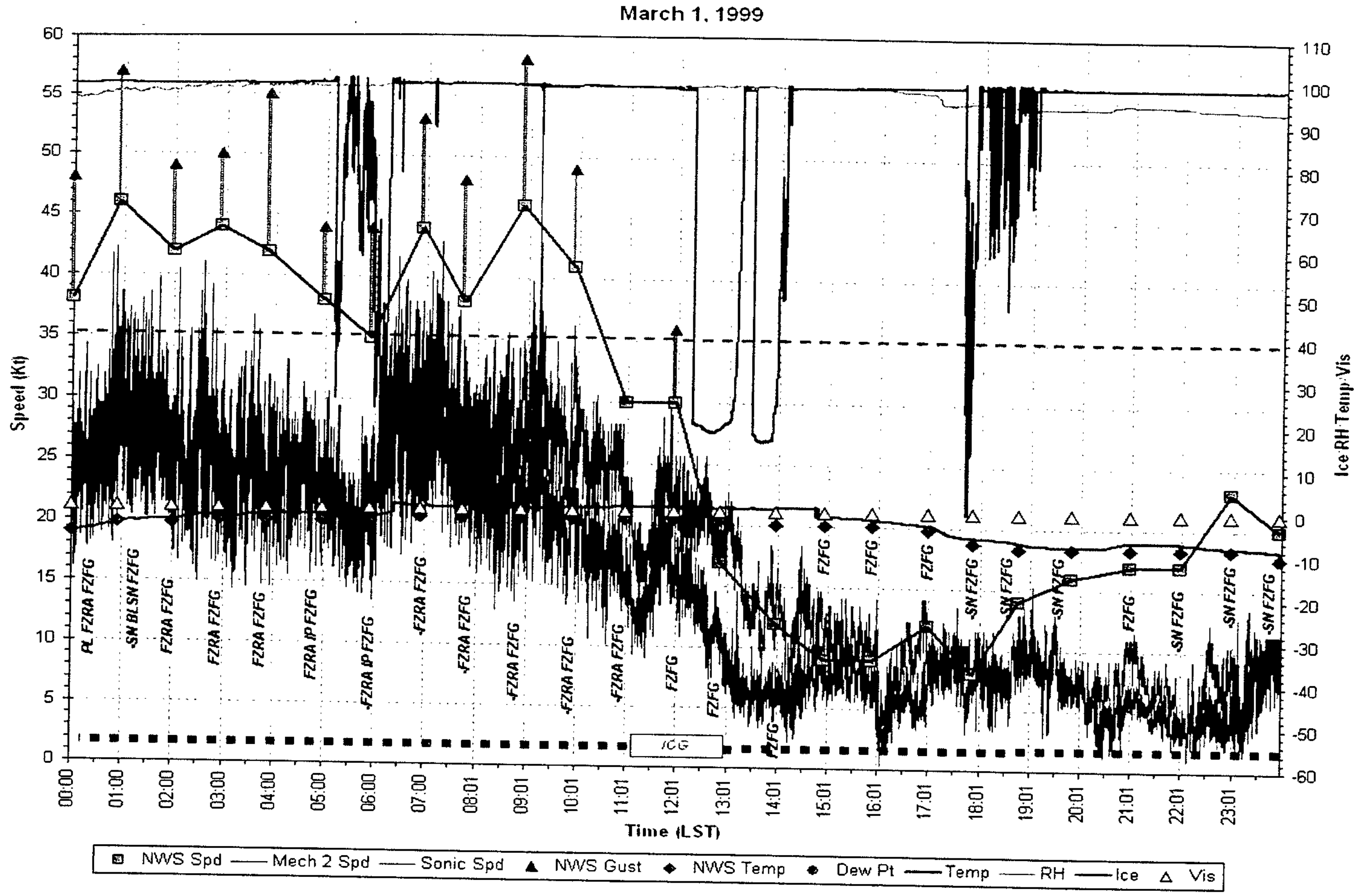
February 27, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

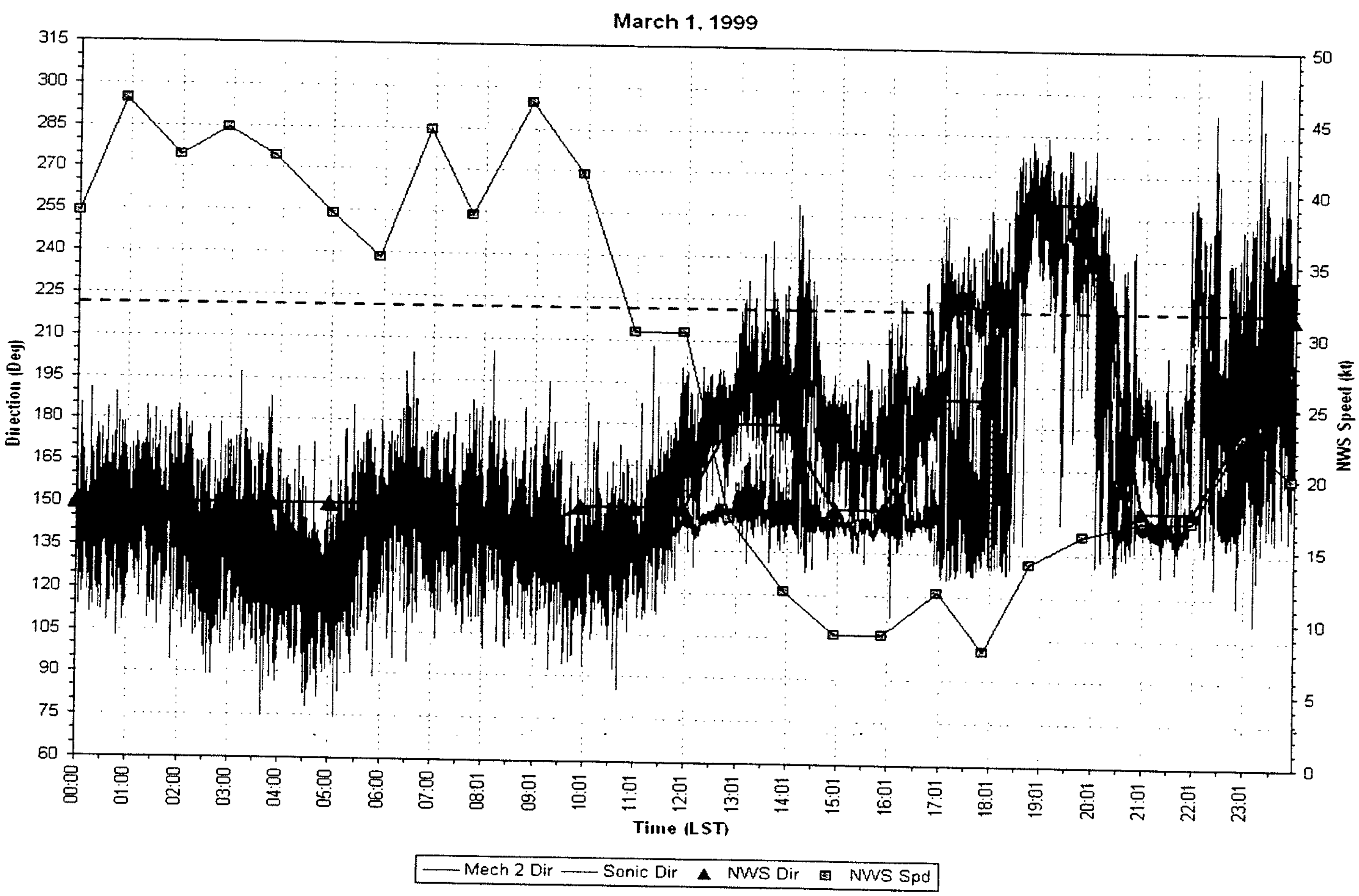


February 28, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
-SN
-SN BLSN F2FG
-SN BLSN F2FG
-SN BLSN F2FG
-SN BLSN F2FG
-SN BLSN F2FG
-SN BLSN
PL FZRA FZFG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

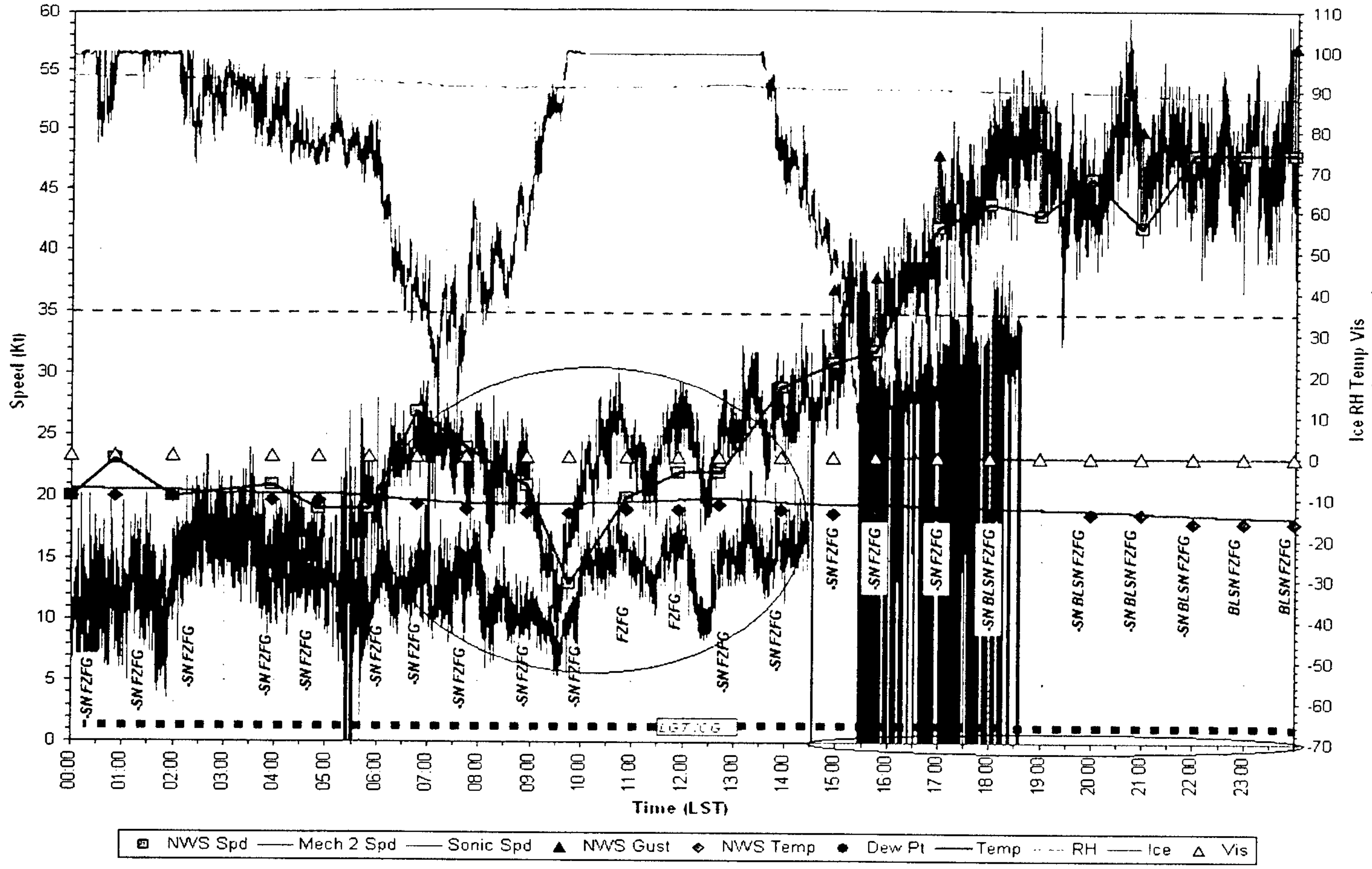


February 28, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

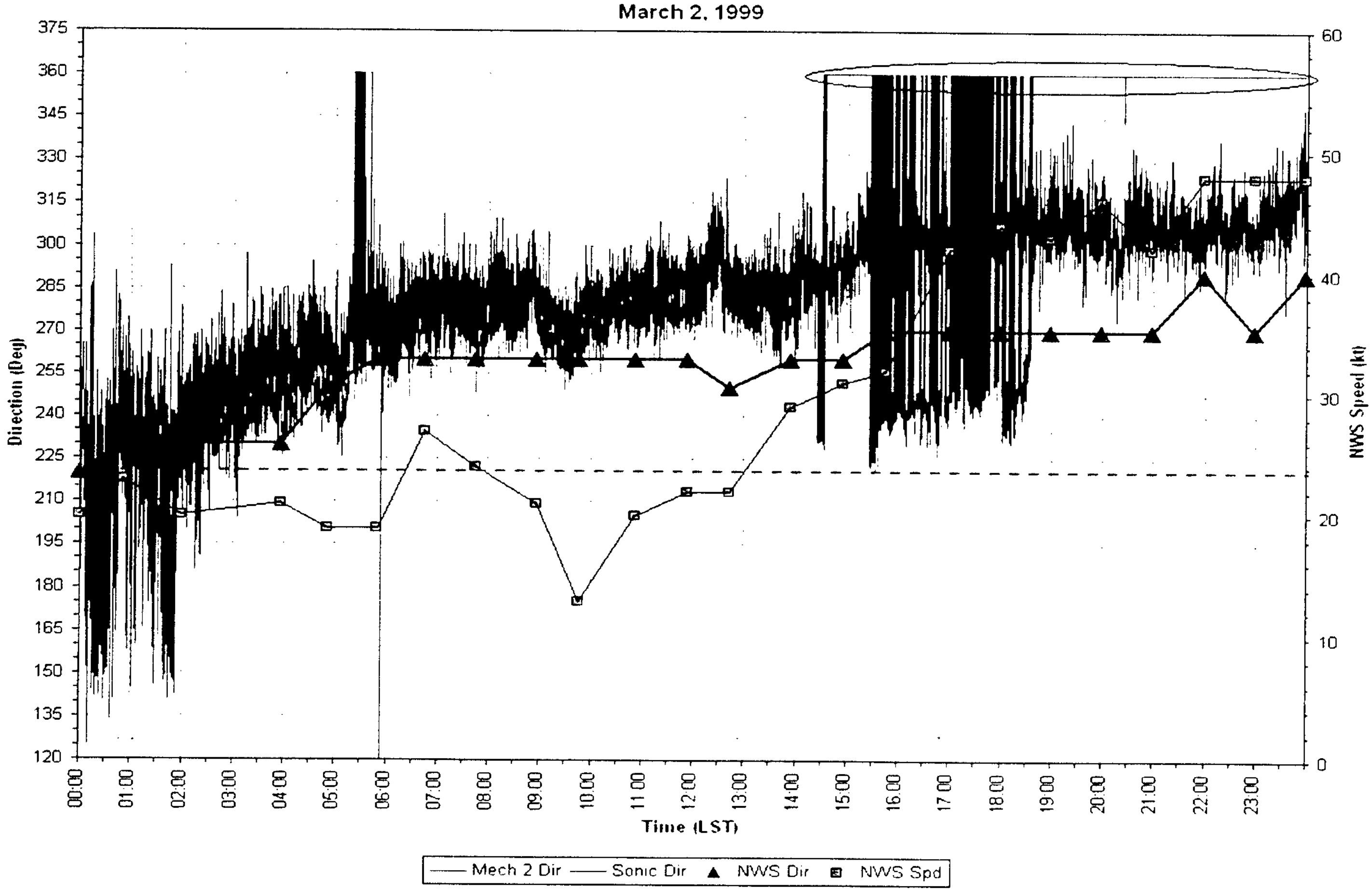

March 1, 1999
Speed (Kt)
Ice·RH·Temp·Vis
Time (LST)
ICG
PL FZRA FZFG
-SN BLSN FZFG
FZRA FZFG
FZRA IP FZFG
-FZRA FZFG
FZFG
-SN FZFG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

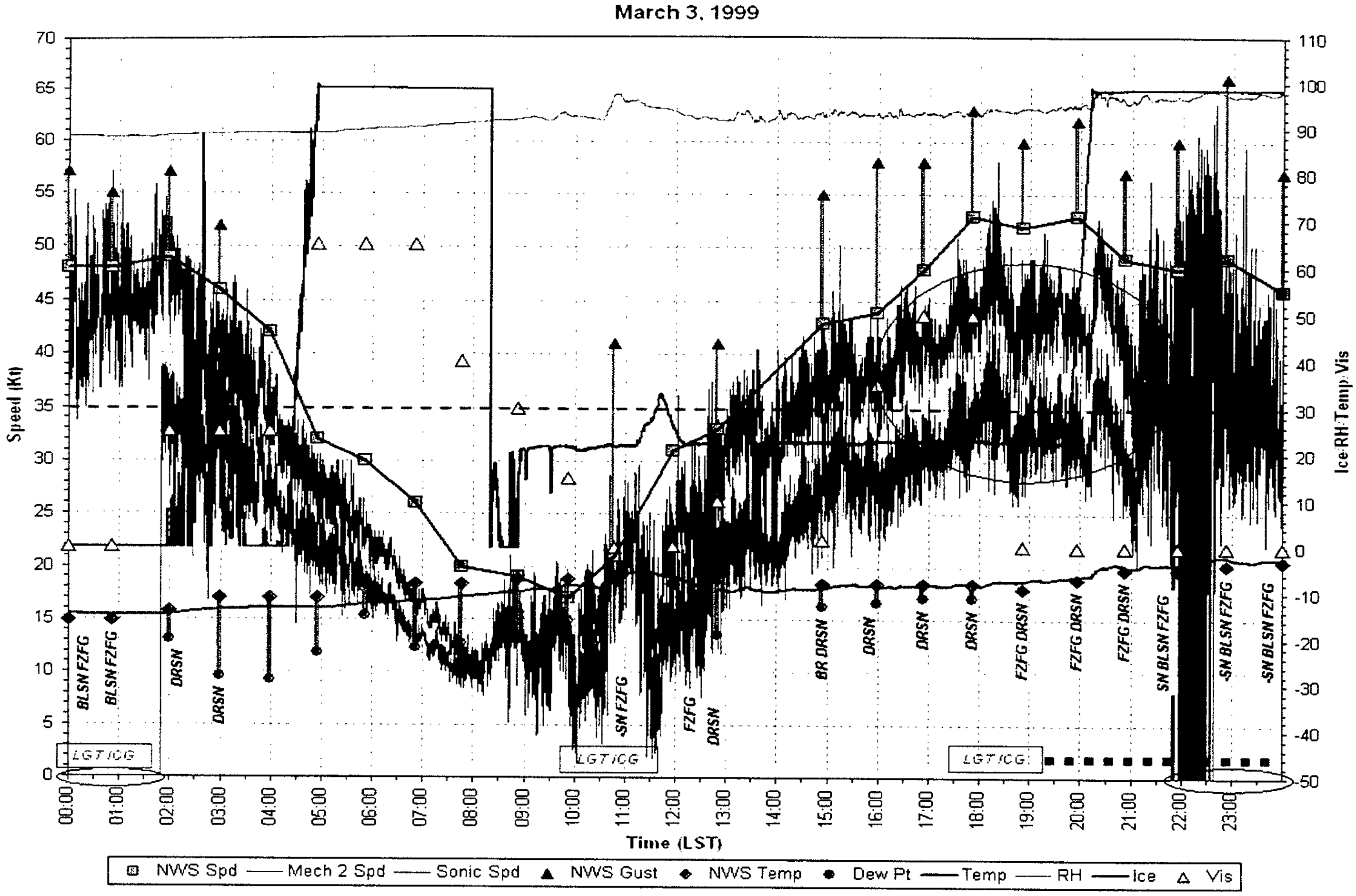

March 1, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

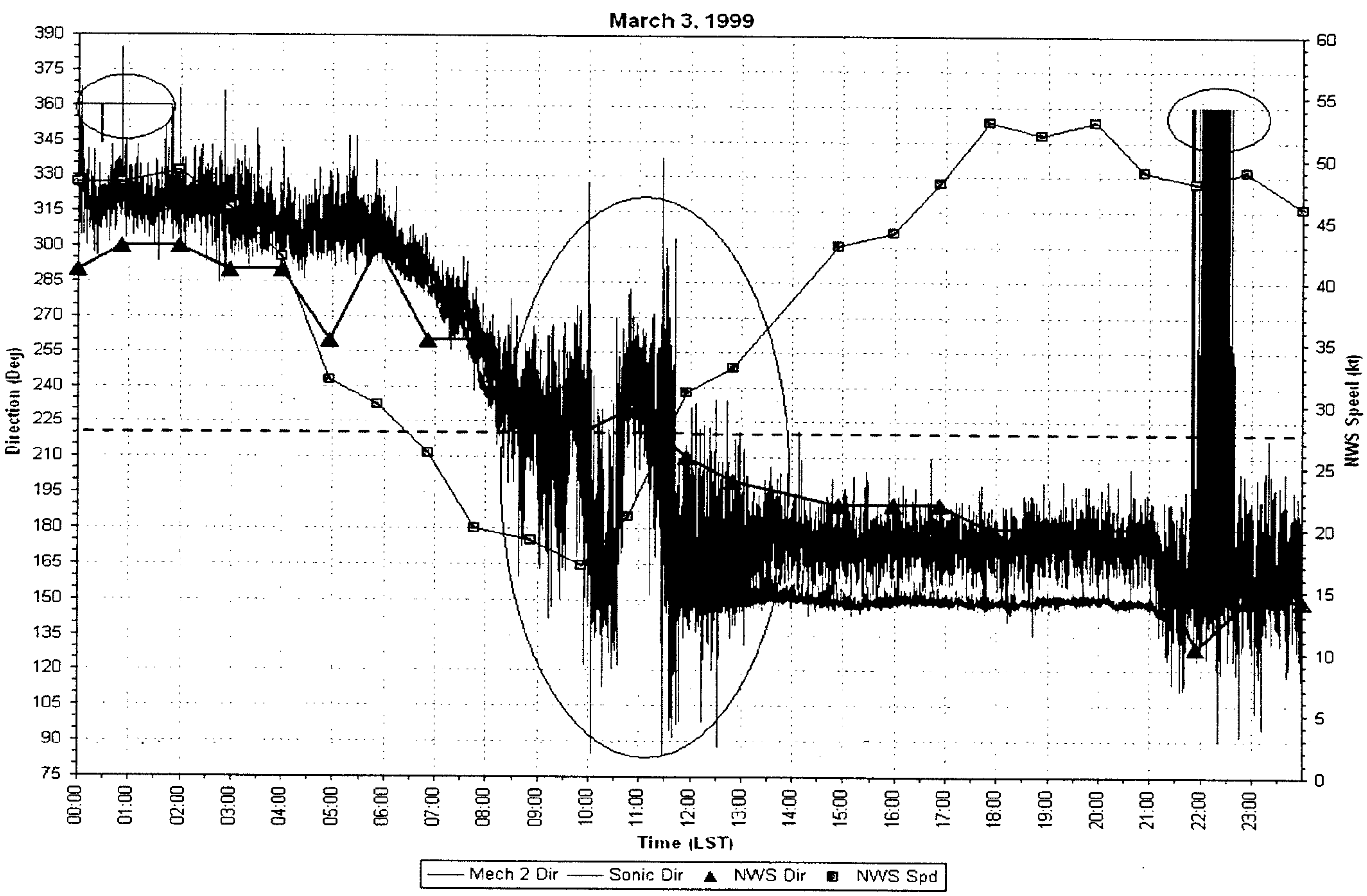
March 2, 1999

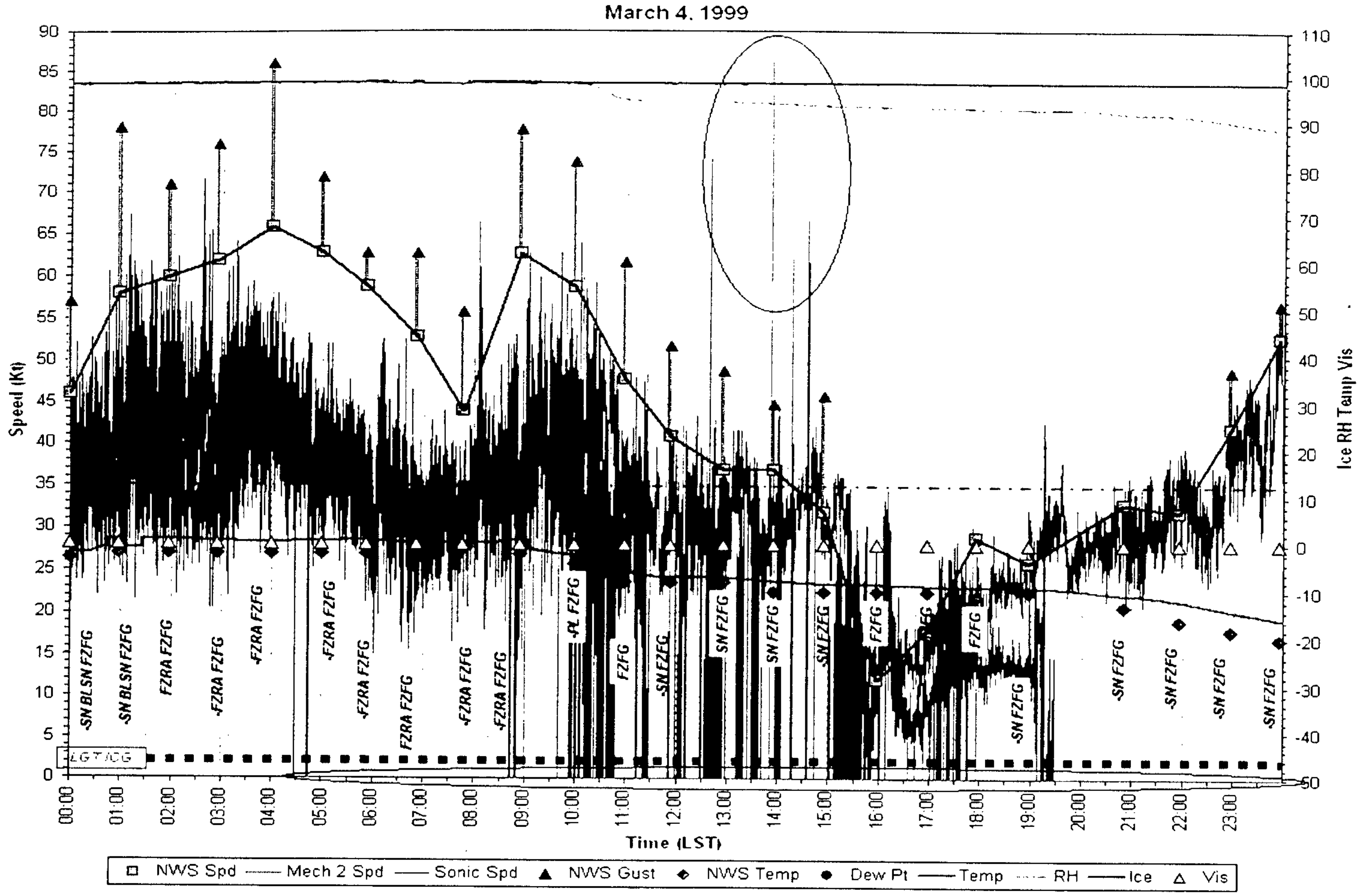


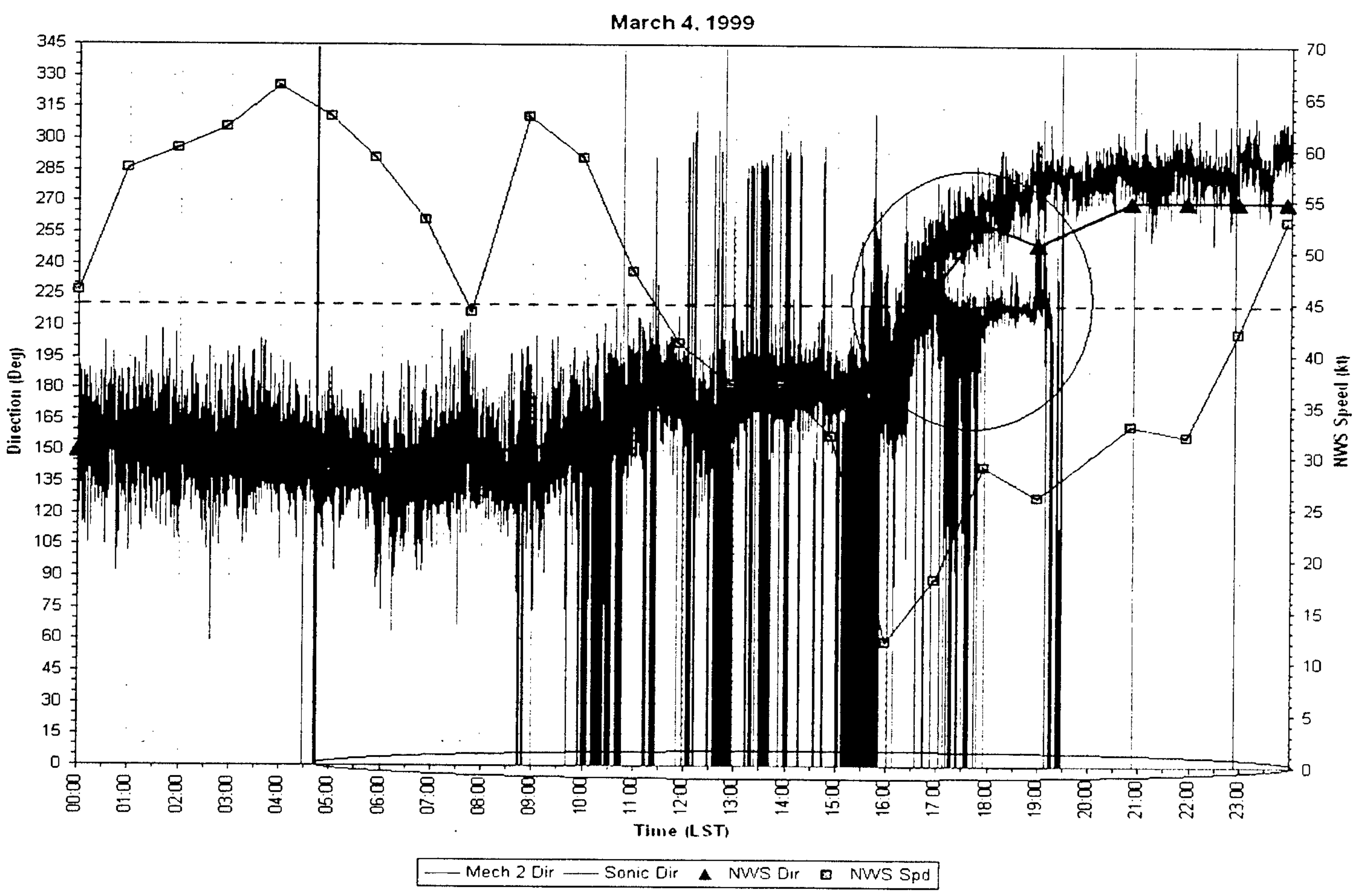
March 2, 1999

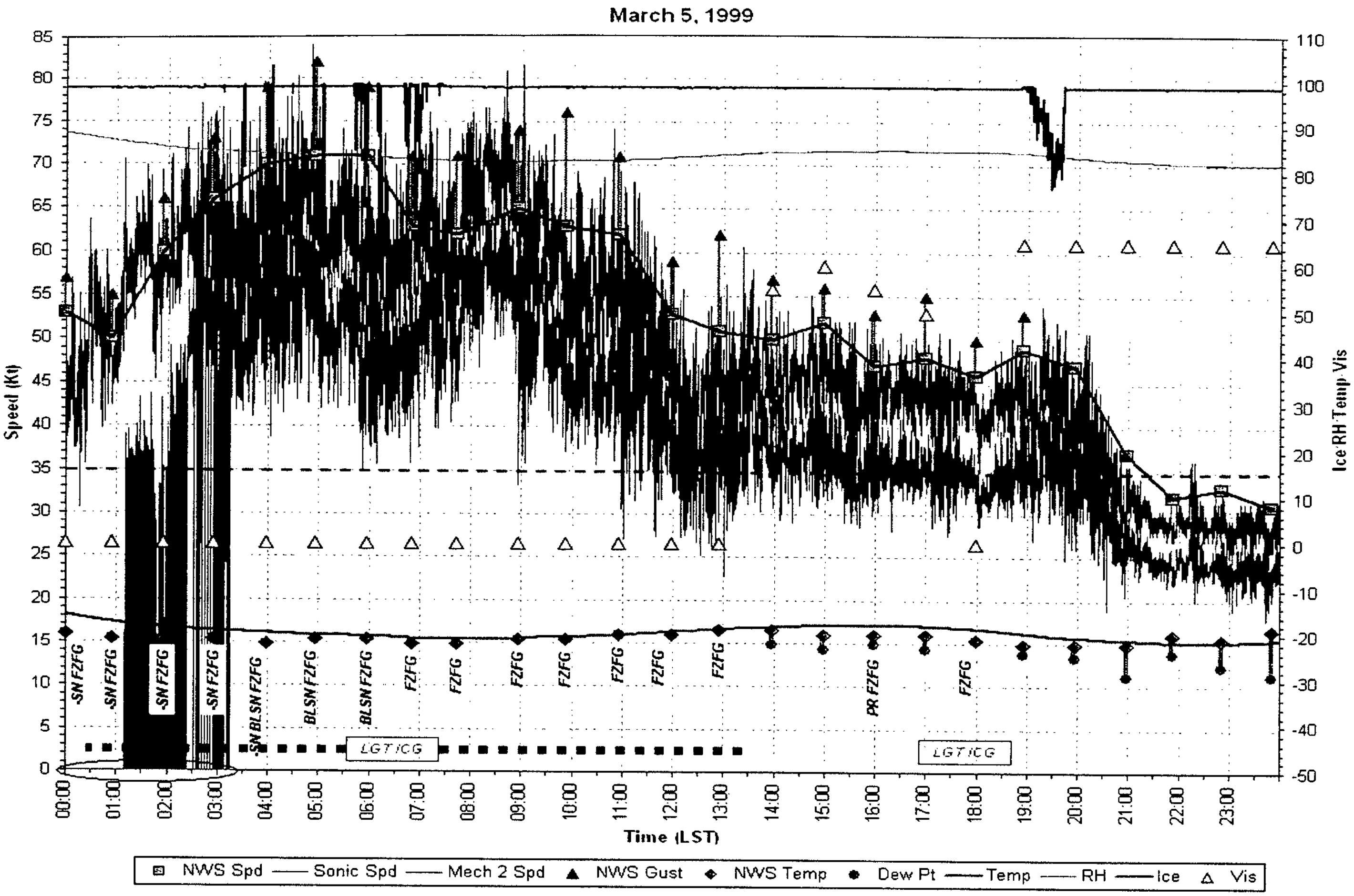


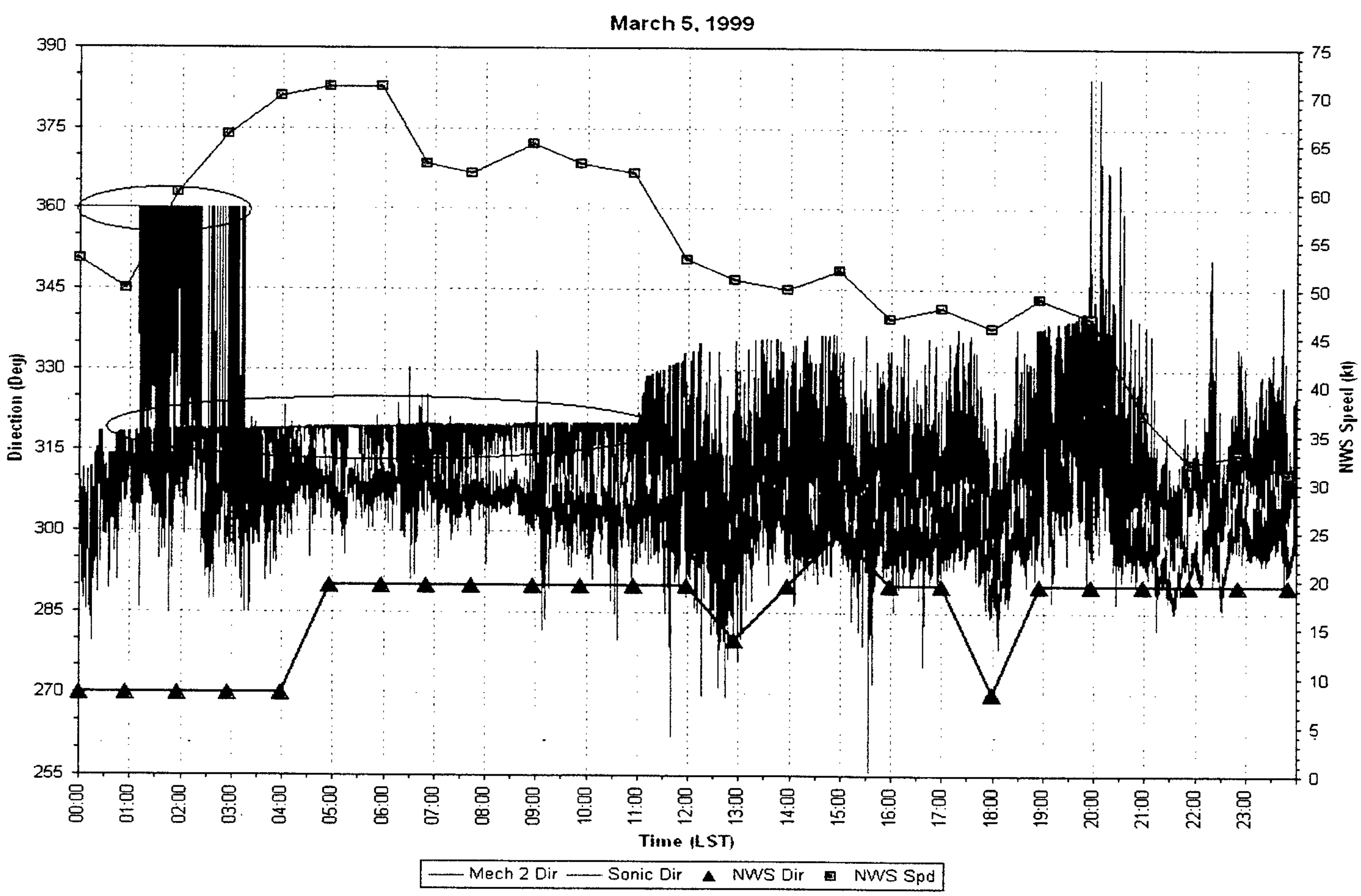

March 3, 1999
Speed (Kt)
Ice·RH·Temp·Vis
Time (LST)
BLSN FZFG
DRSN
SN FZFG
FZFG
BR DRSN
FZFG DRSN
SN BLSN FZFG
LGT ICG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis


March 3, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

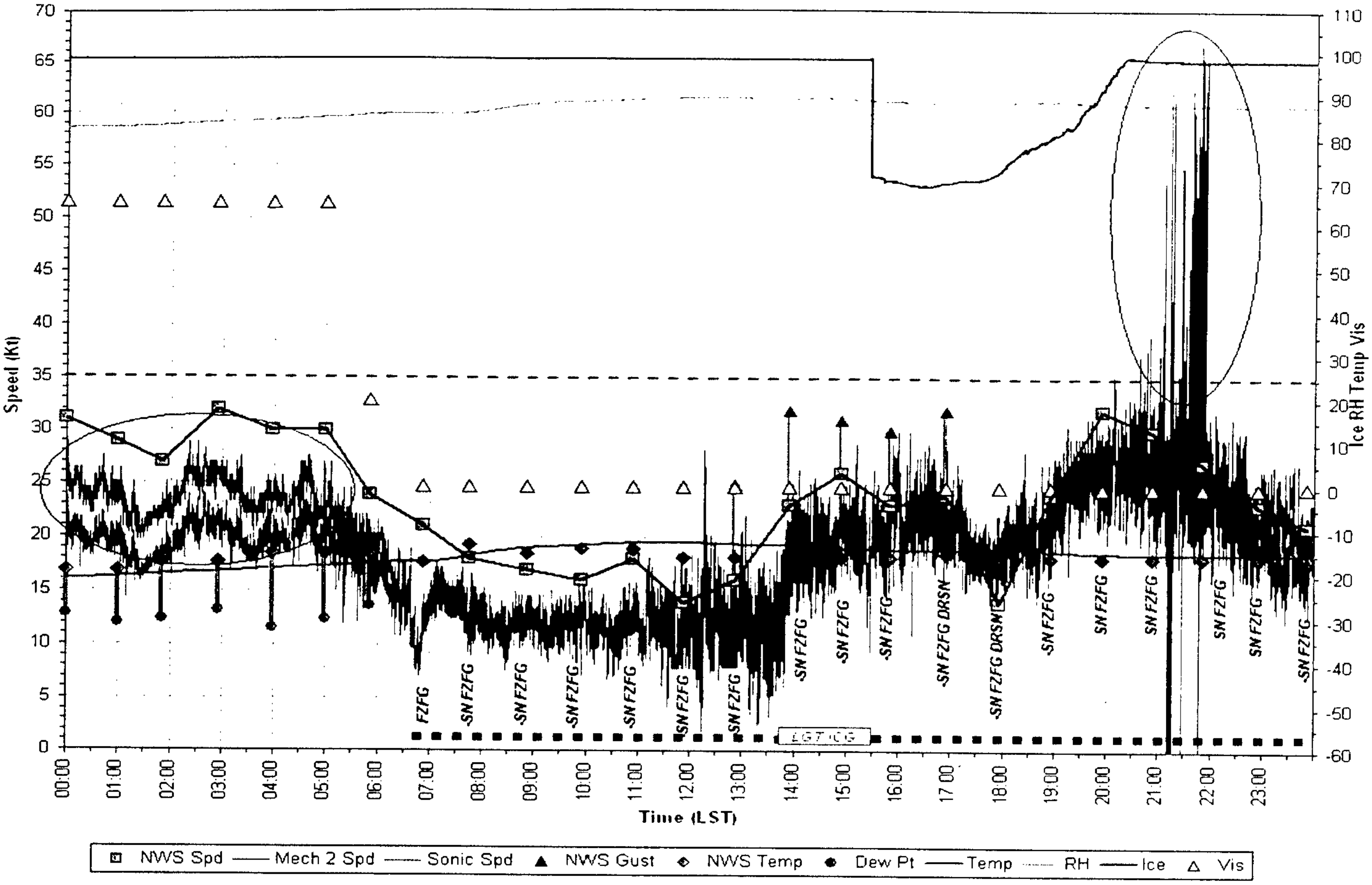

March 4, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
-SN BLSN FZFG
-SN BLSN FZFG
FZRA FZFG
-FZRA FZFG
-FZRA FZFG
-FZRA FZFG
-FZRA FZFG
FZRA FZFG
-FZRA FZFG
-FZRA FZFG
-PL FZFG
FZFG
-SN FZFG
SN FZFG
SN FZFG
-SN FZFG
FZFG
FZFG
-SN FZFG
-SN FZFG
-SN FZFG
-SN FZFG
-SN FZFG
LGT/CG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis


March 4, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

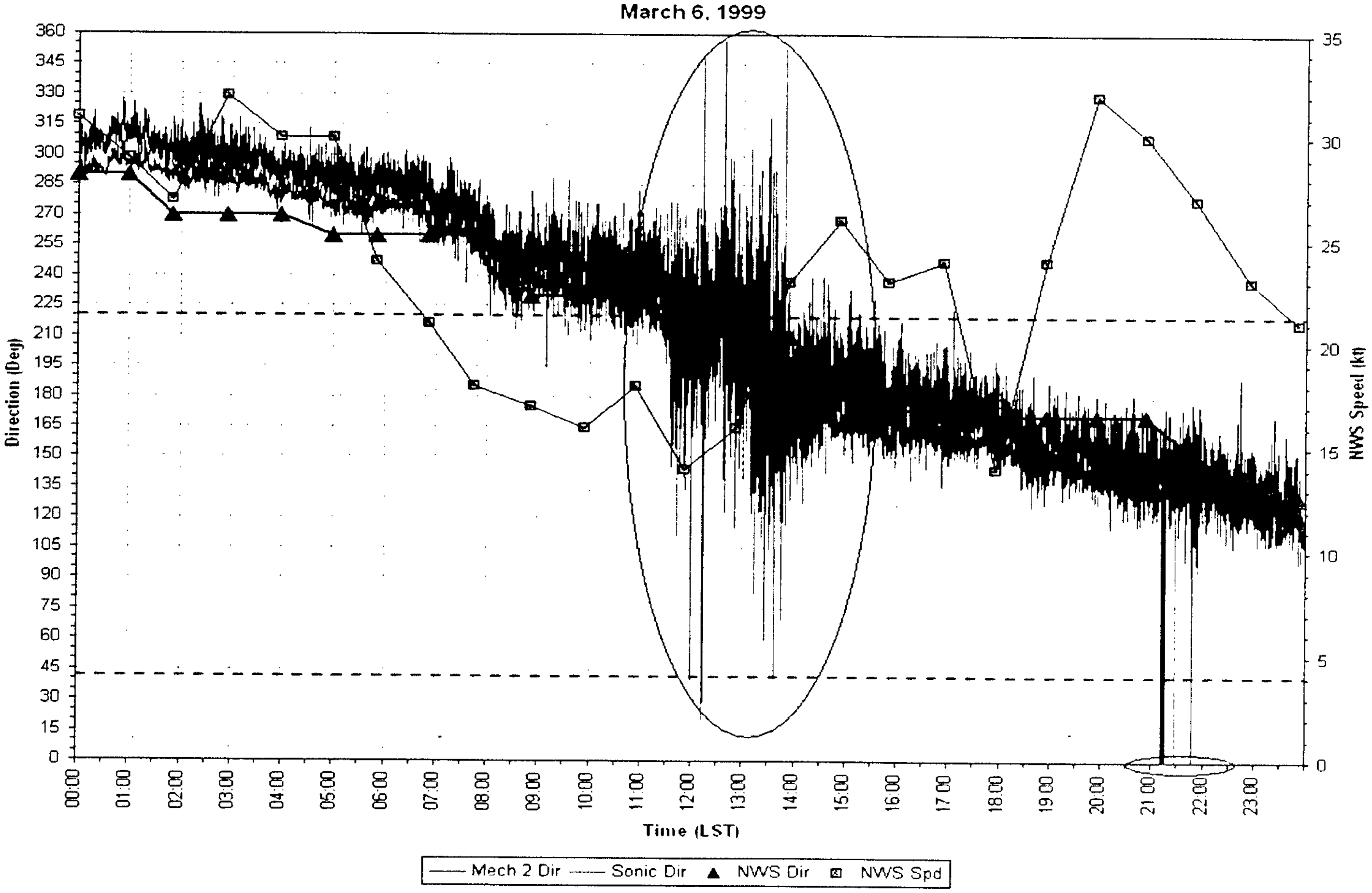

March 5, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
-SN FZFG
-SN FZFG
-SN FZFG
-SN FZFG
-SN BLSN FZFG
BLSN FZFG
BLSN FZFG
FZFG
FZFG
FZFG
FZFG
FZFG
FZFG
FZFG
PR FZFG
FZFG
LGT ICG
LGT ICG
NWS Spd
Sonic Spd
Mech 2 Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

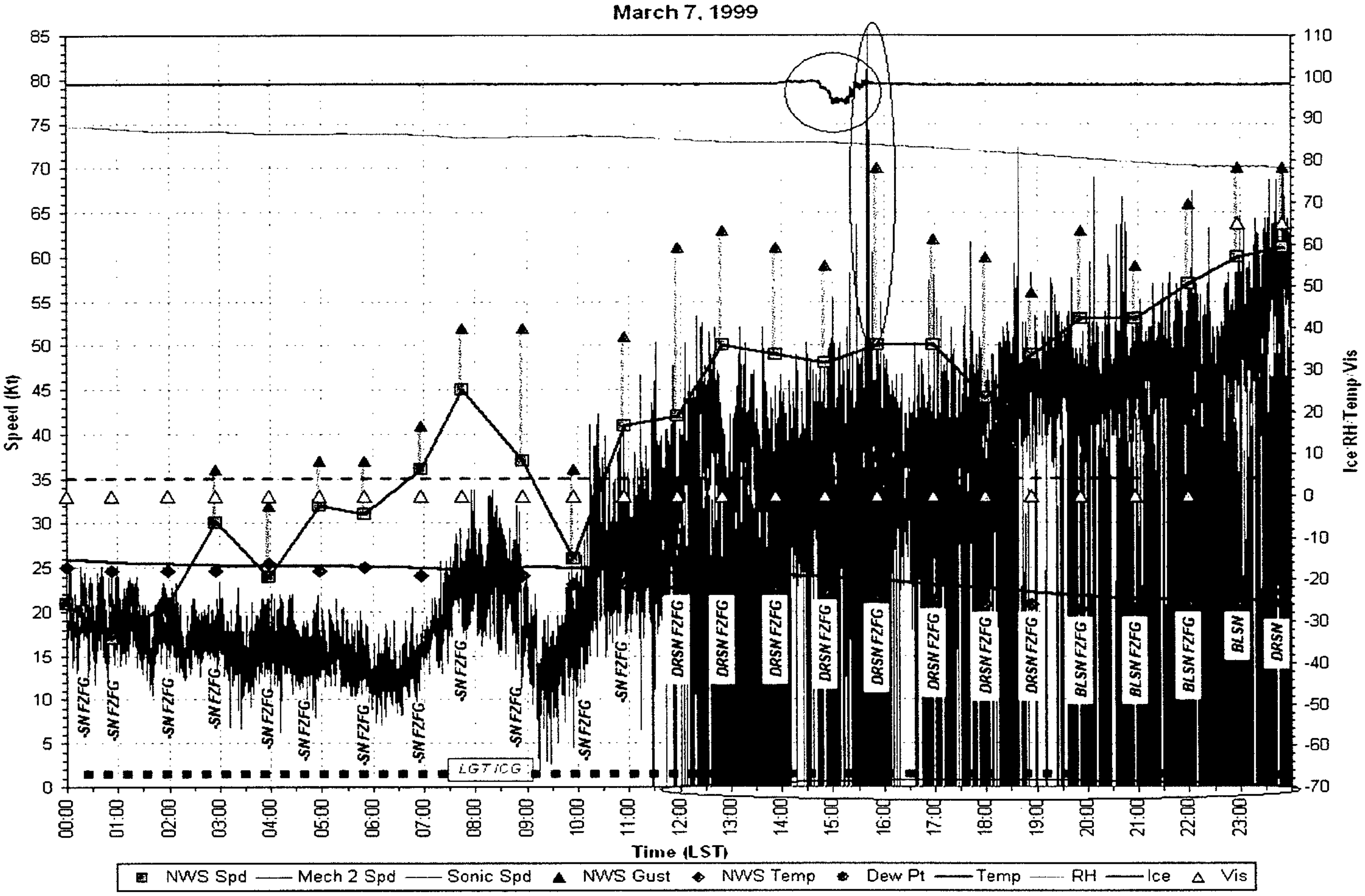

March 5, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

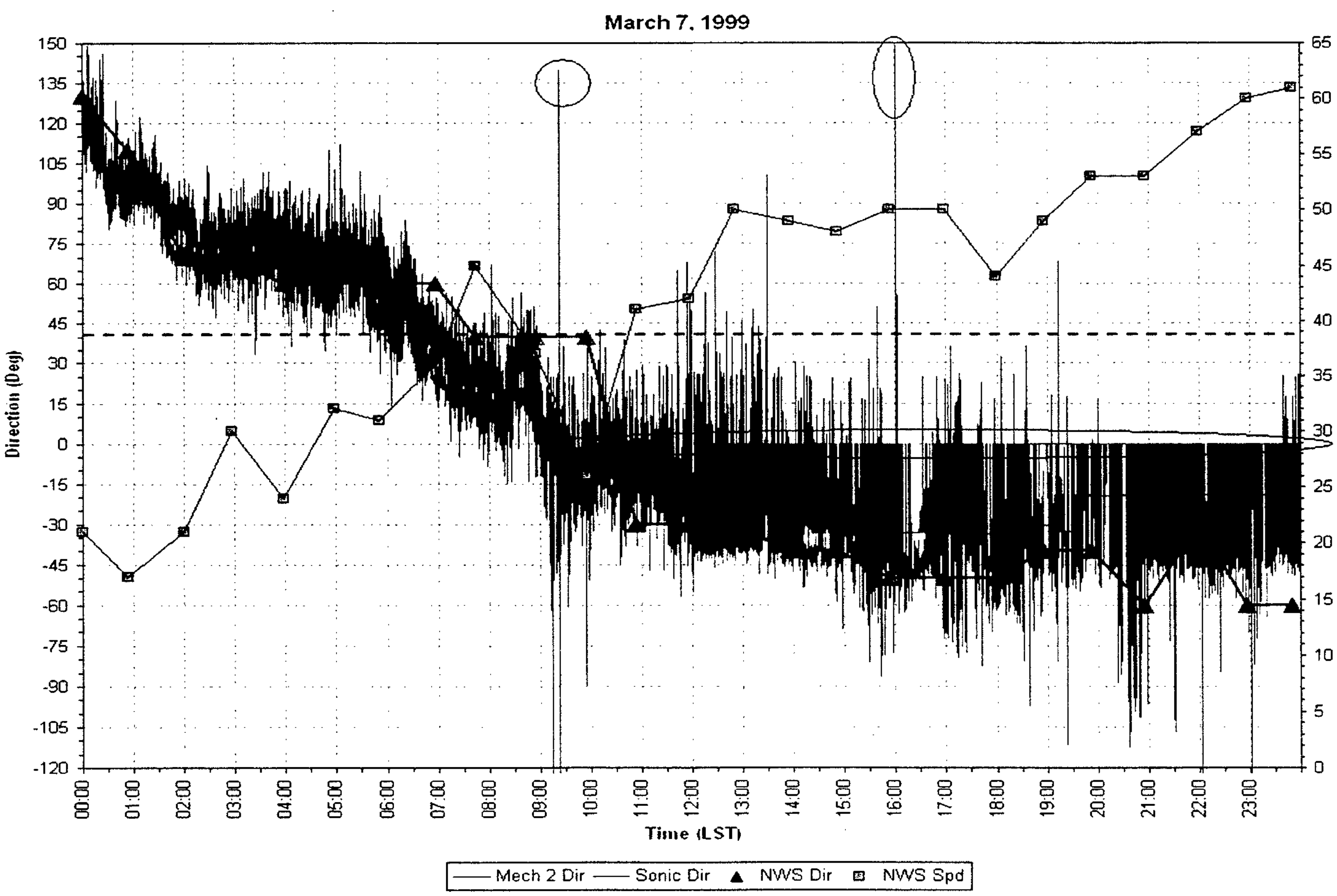
March 6, 1999

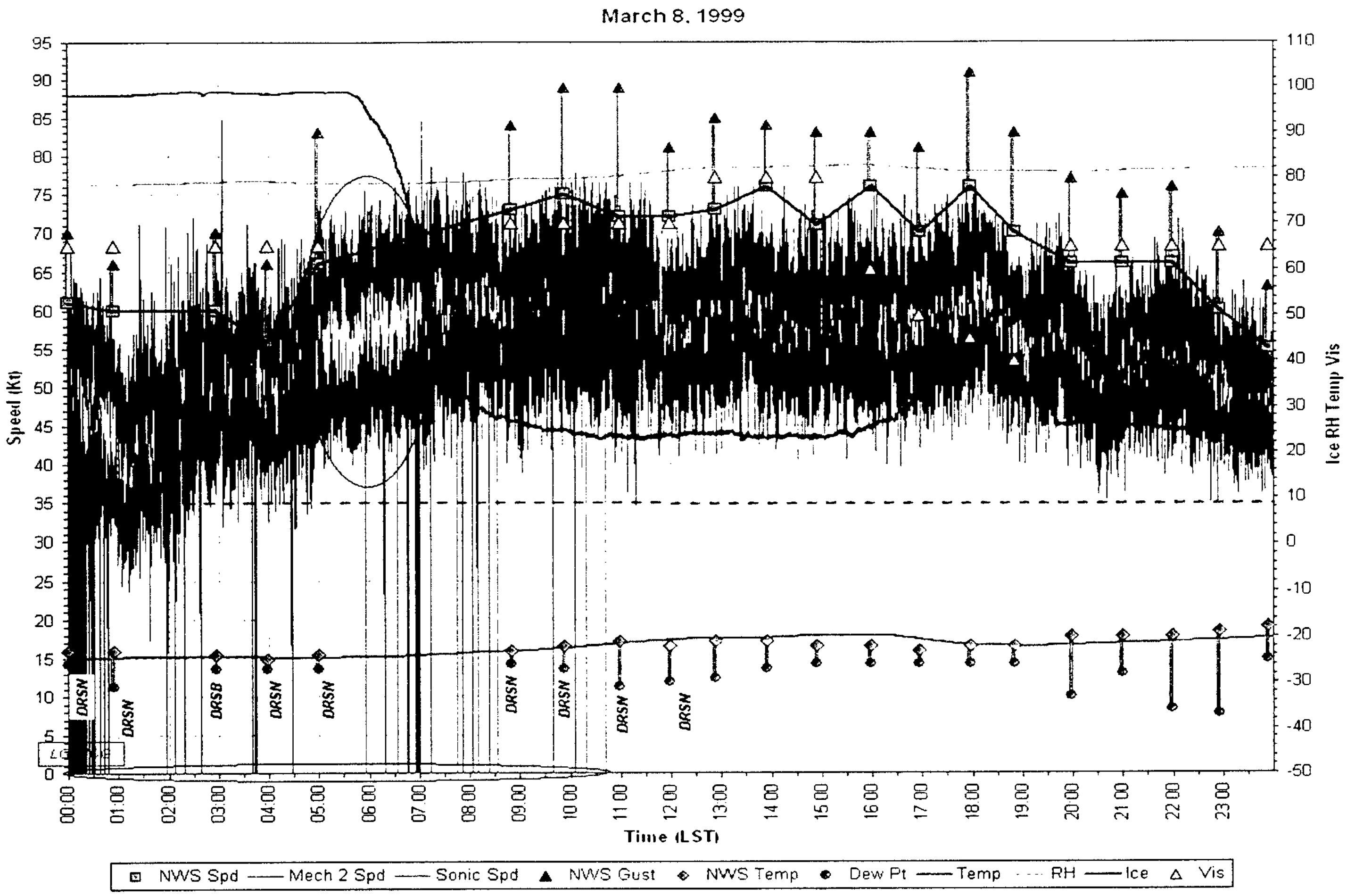


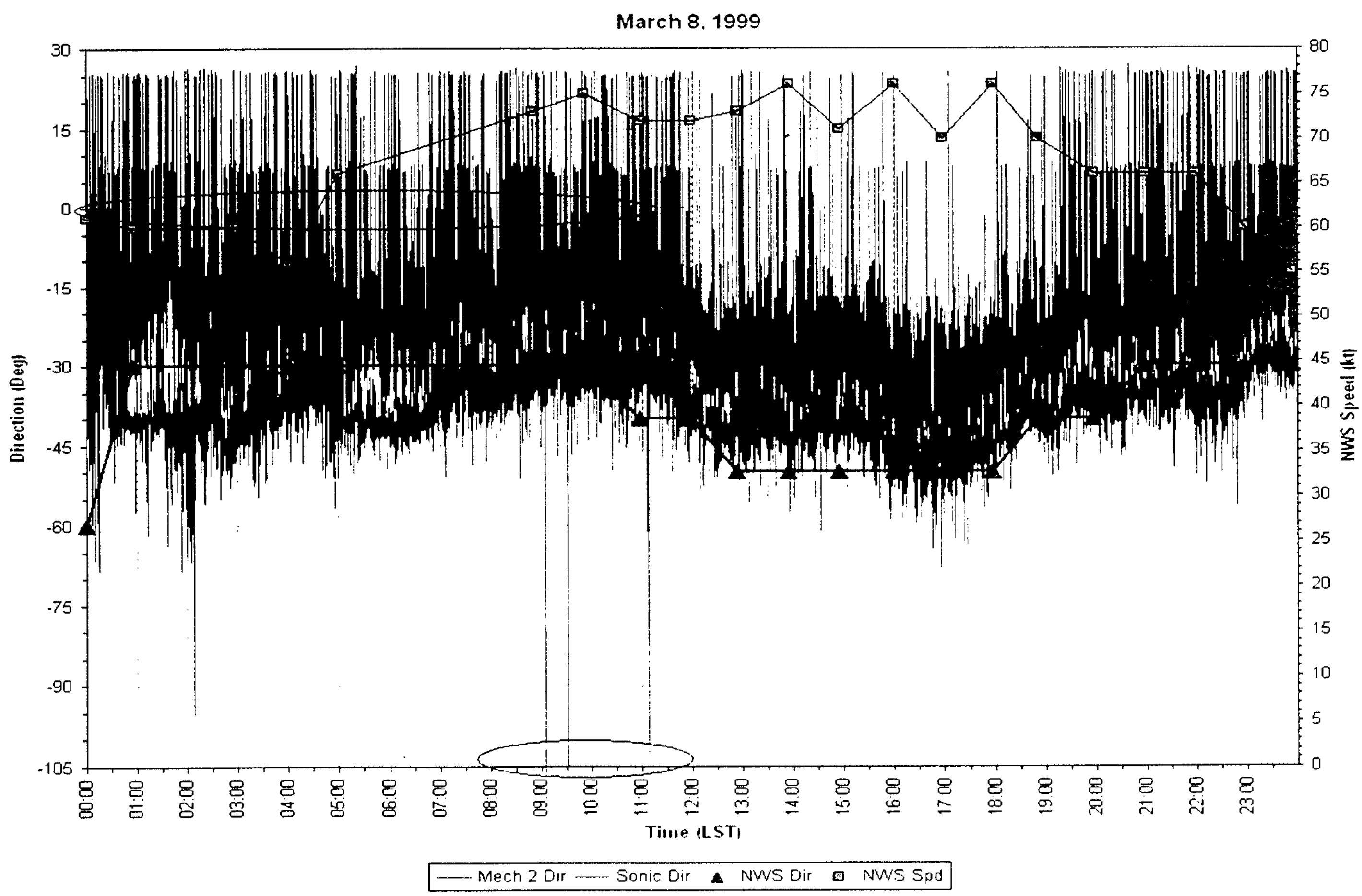
March 6, 1999

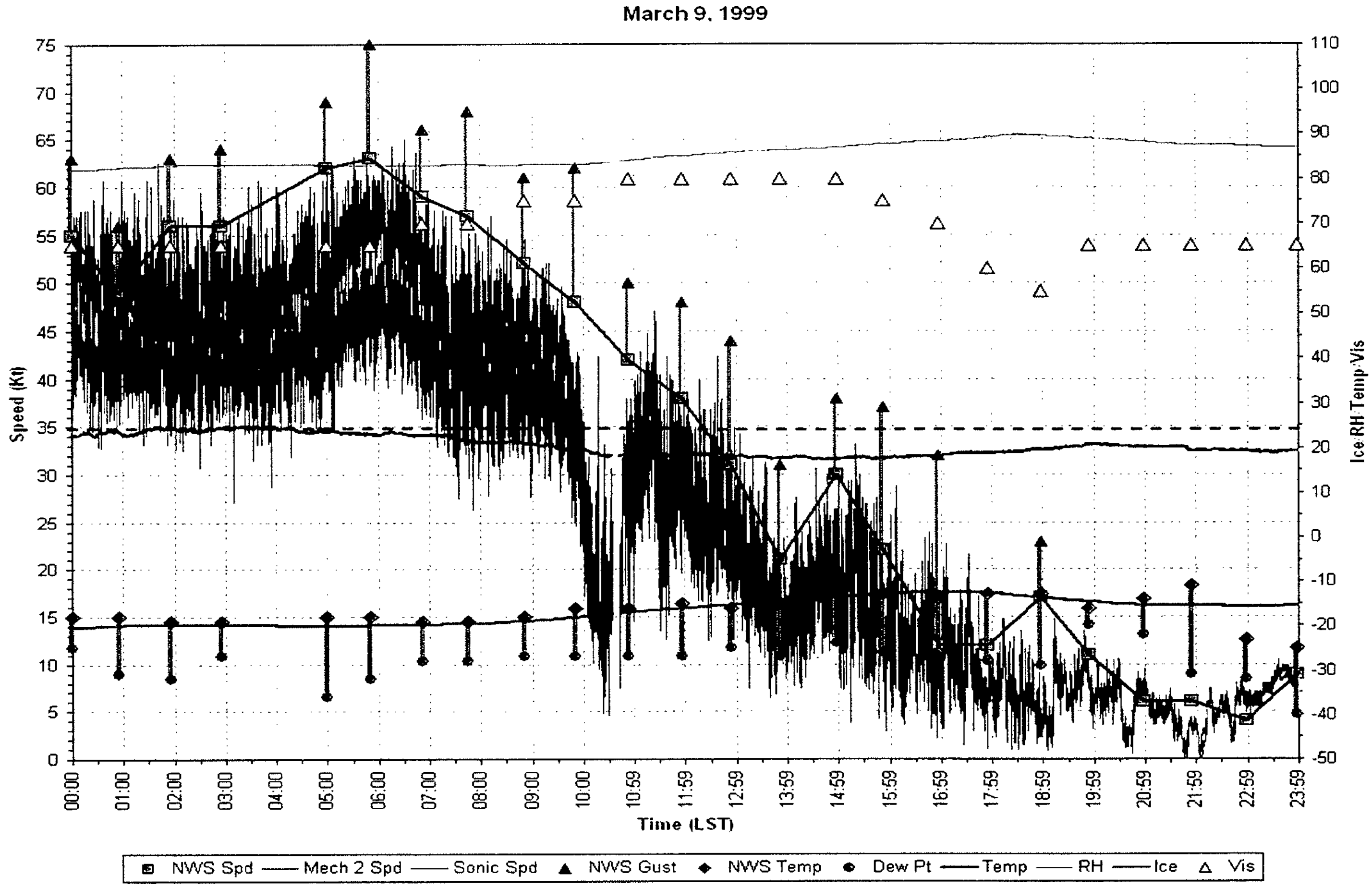


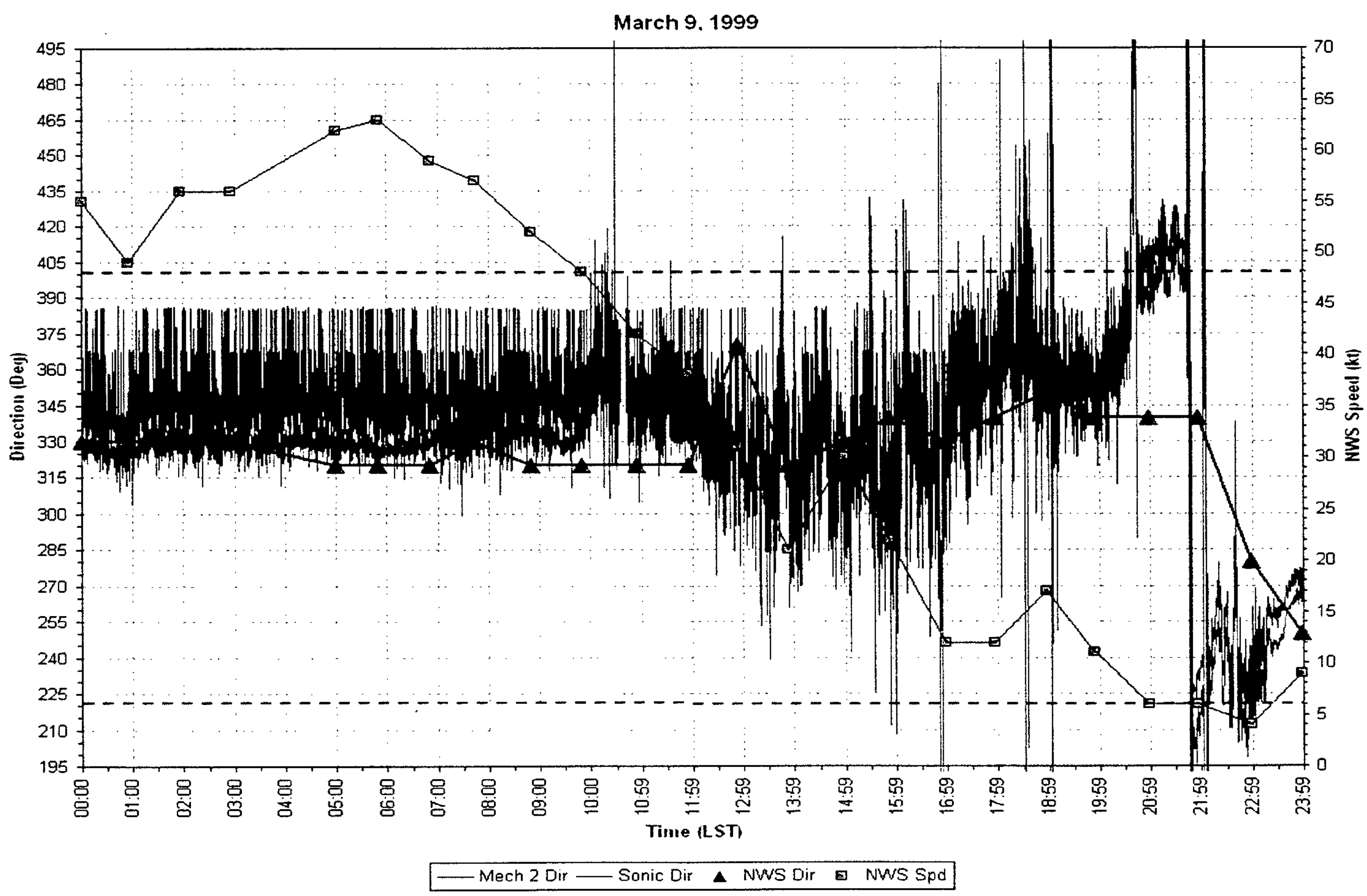

March 7, 1999
Speed (Kt)
Ice·RH·Temp·Vis
Time (LST)
-SN FZFG
LGT ICG
DRSN FZFG
BLSN FZFG
BLSN
DRSN
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis


March 7, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

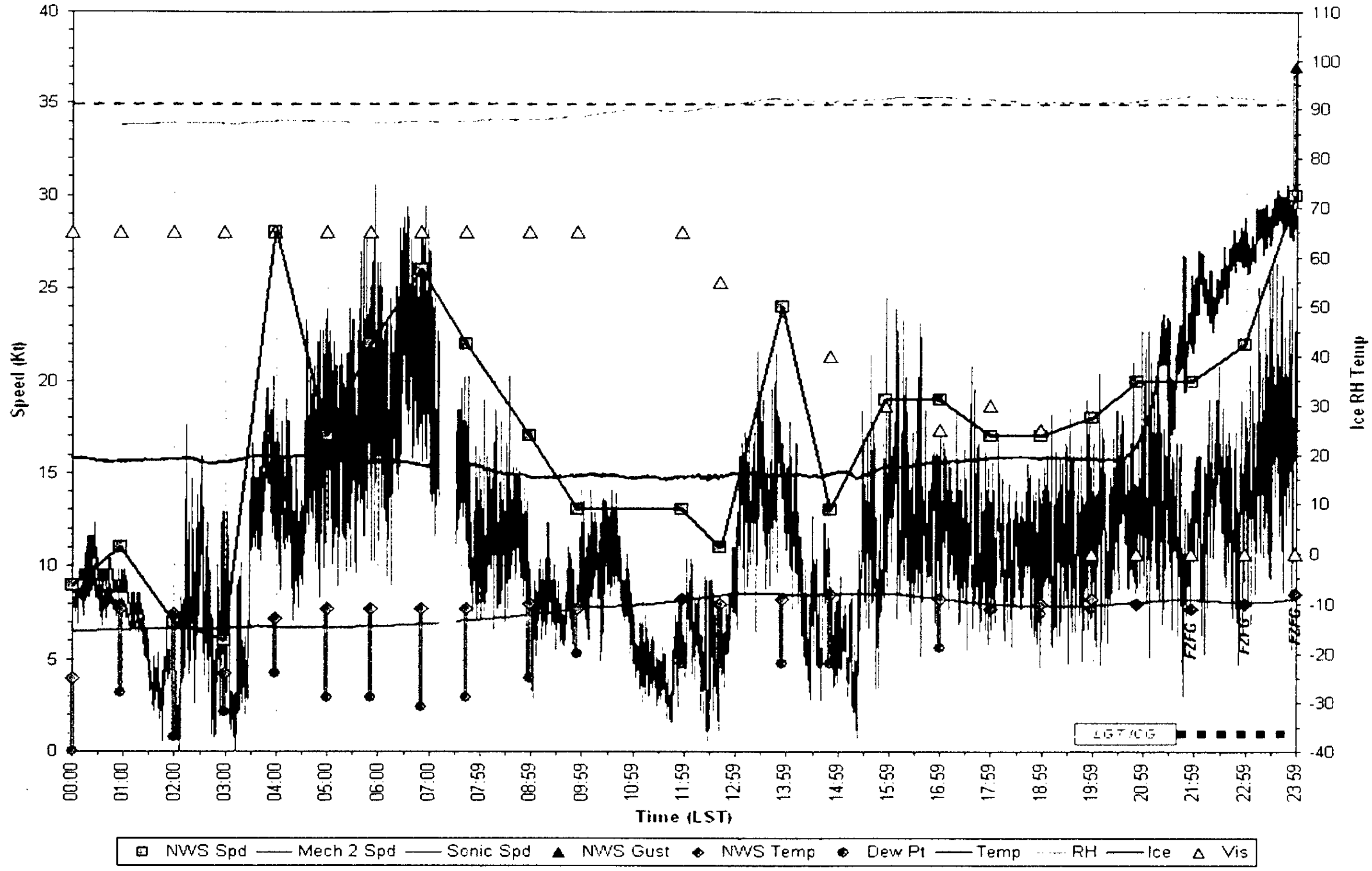

March 8, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
DRSN
DRSB
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis


March 8, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

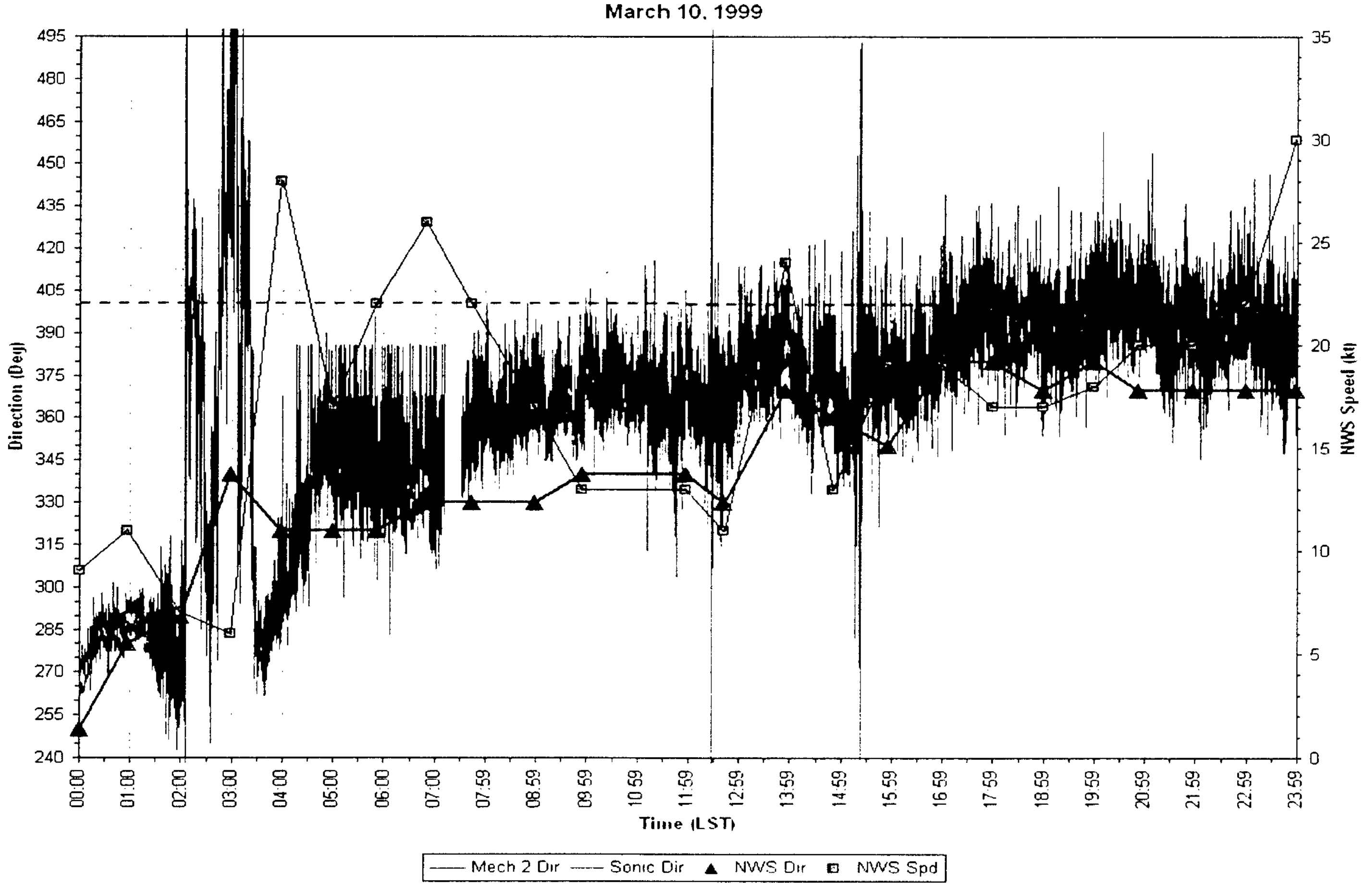

March 9, 1999
Speed (Kt)
Ice·RH·Temp·Vis
Time (LST)
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

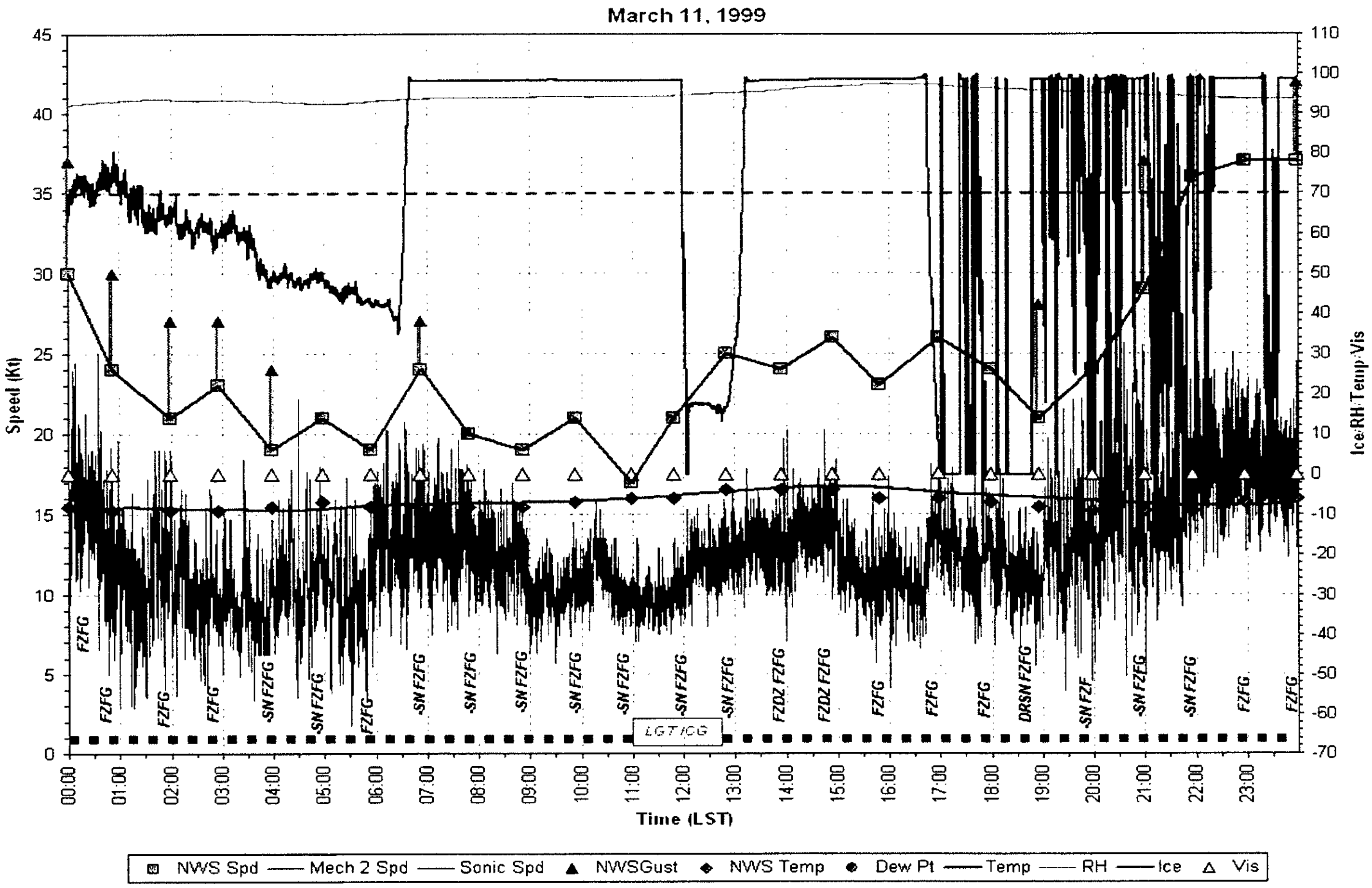

March 9, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

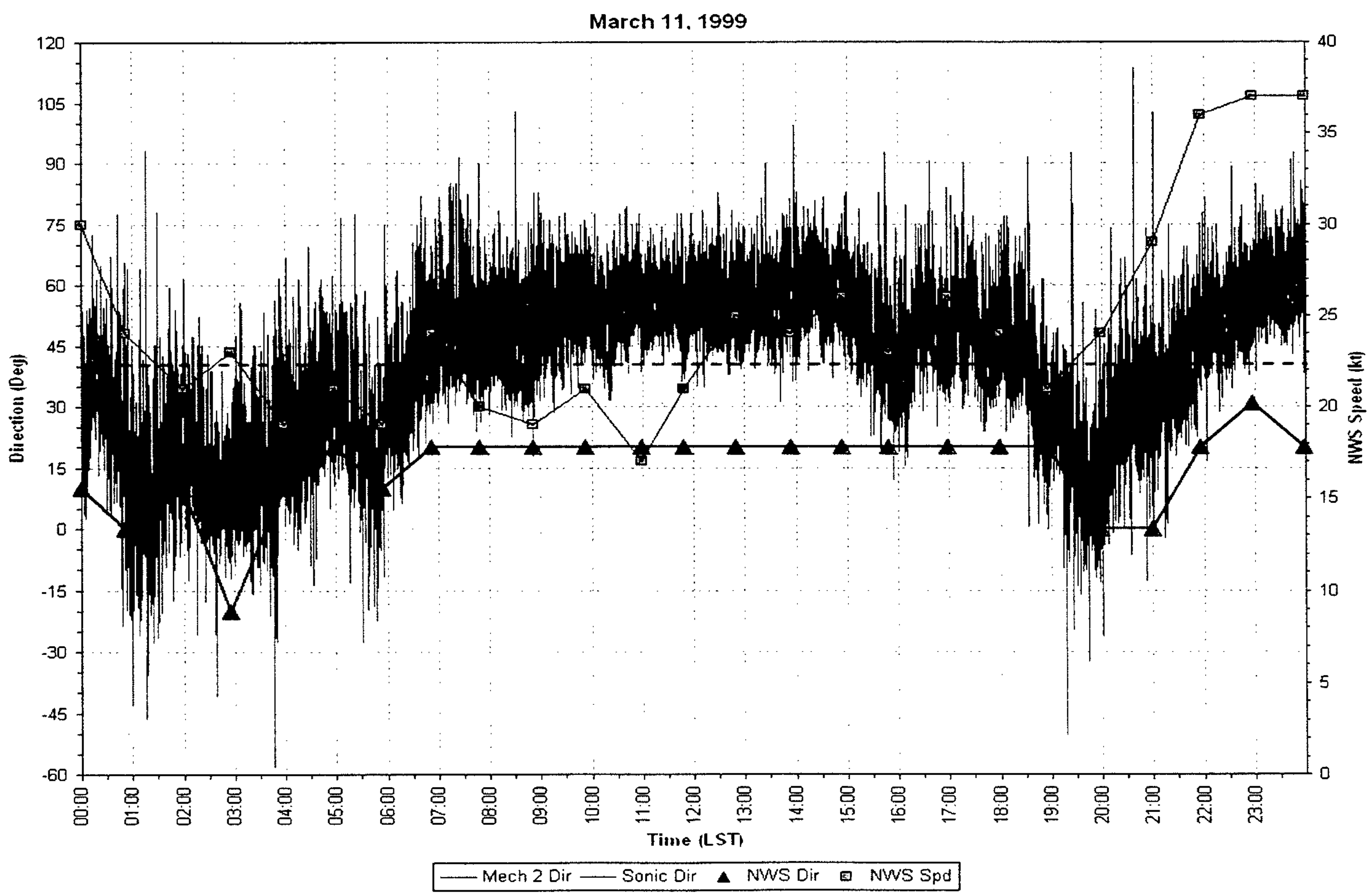
March 10, 1999

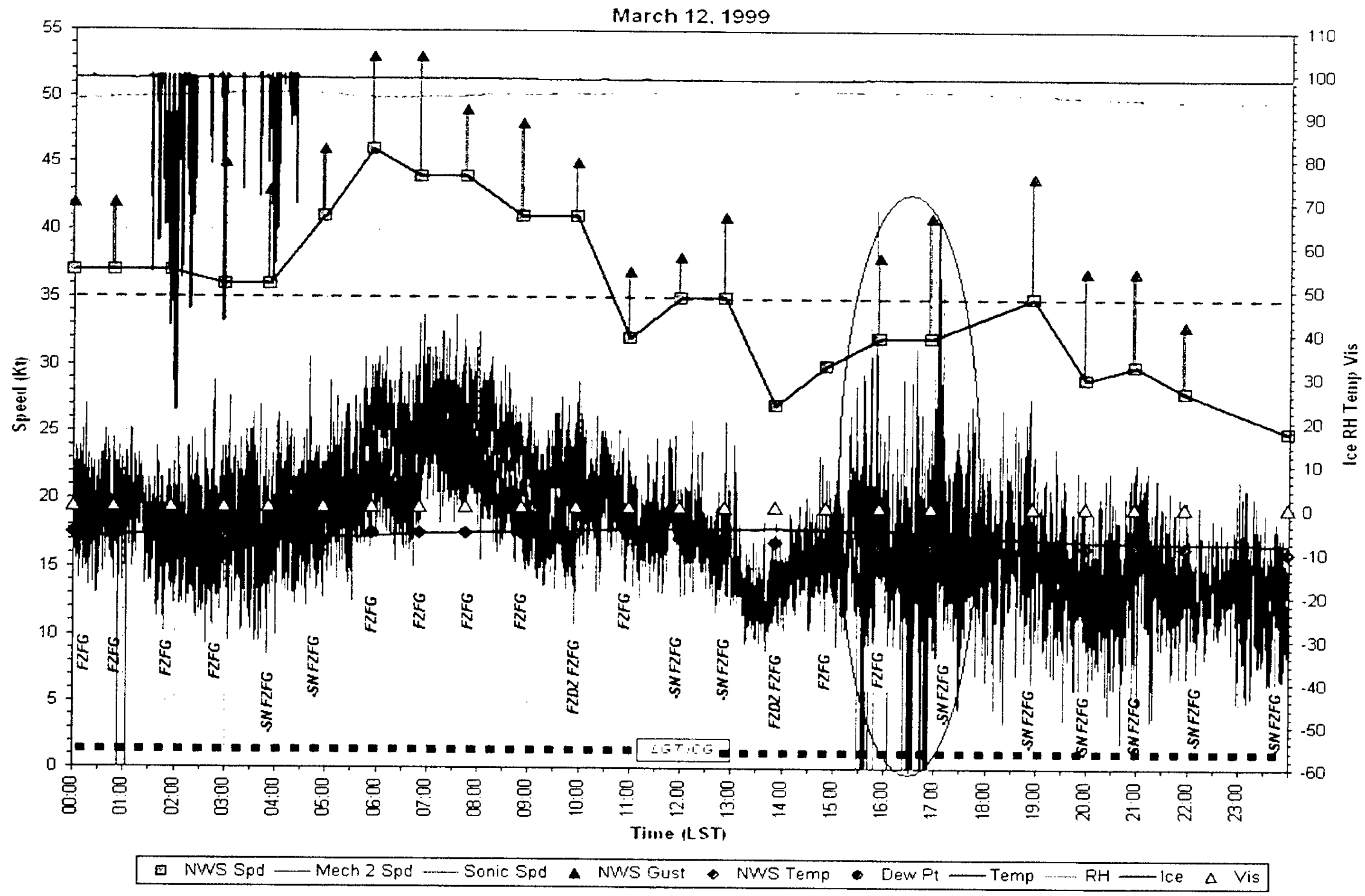


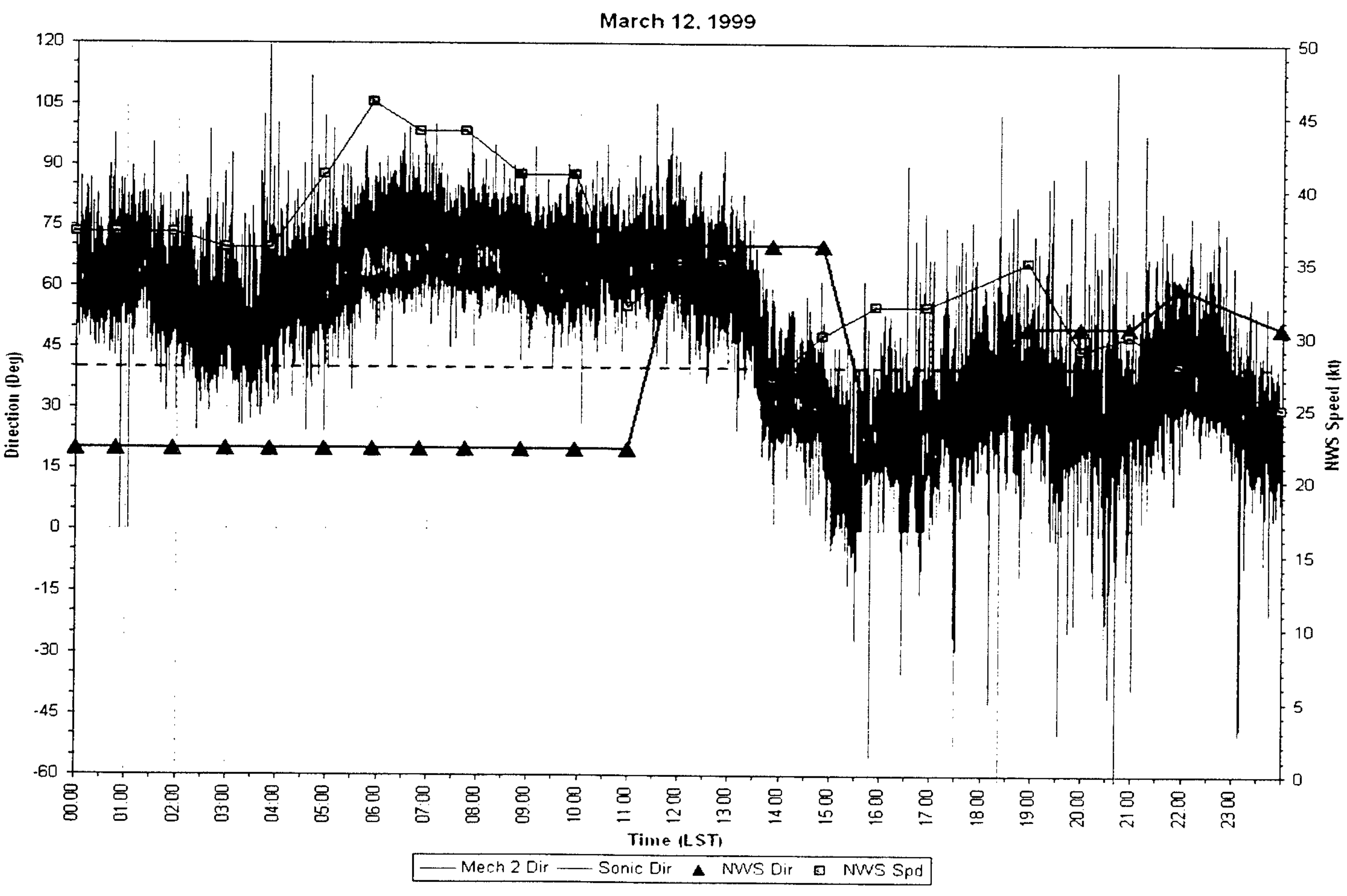
March 10, 1999

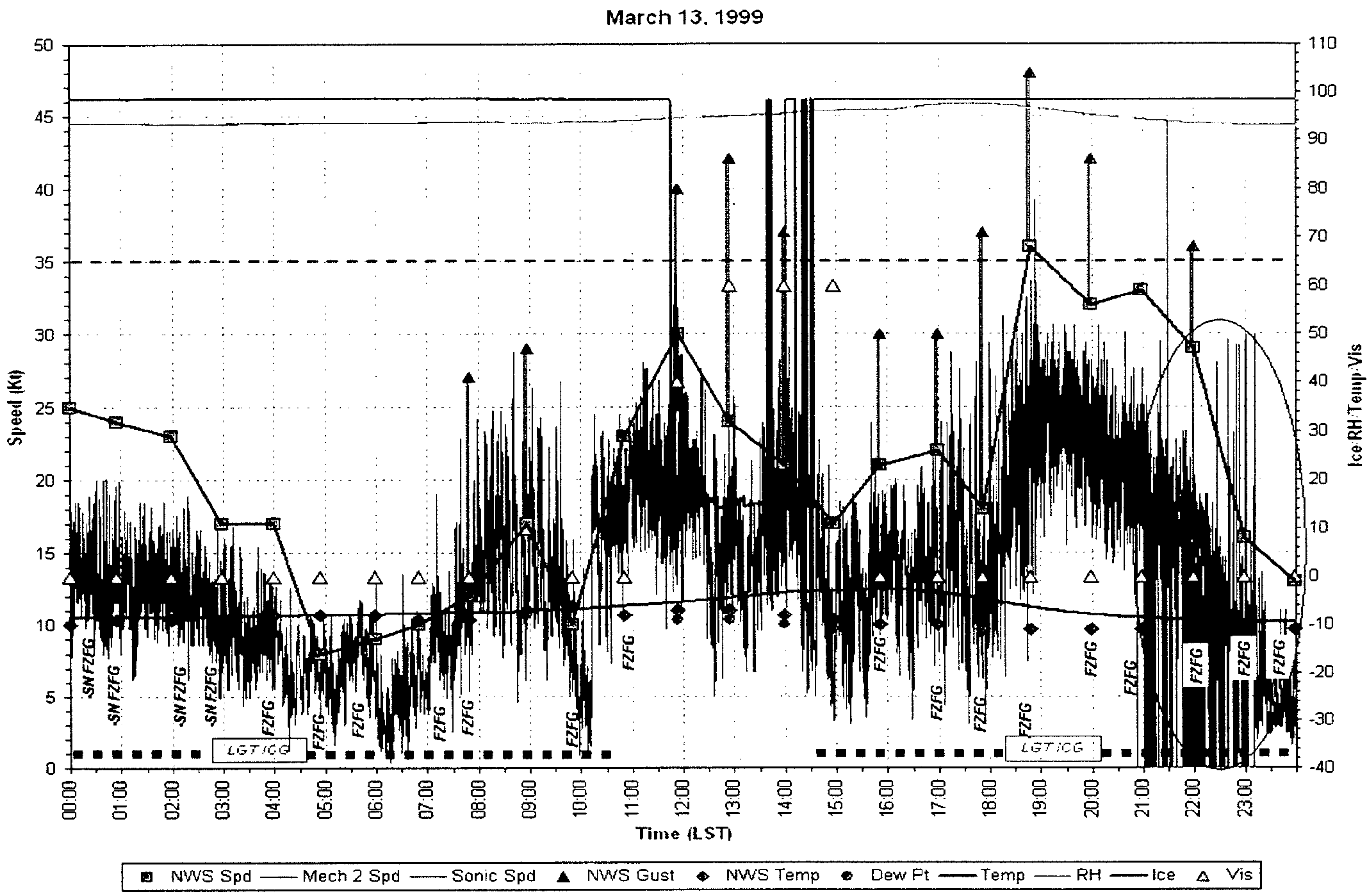



March 11, 1999
Speed (Kt)
Ice·RH·Temp·Vis
Time (LST)
FZFG
-SN FZFG
FZDZ FZFG
DRSN FZFG
LGT/ICG
NWS Spd
Mech 2 Spd
Sonic Spd
NWSGust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

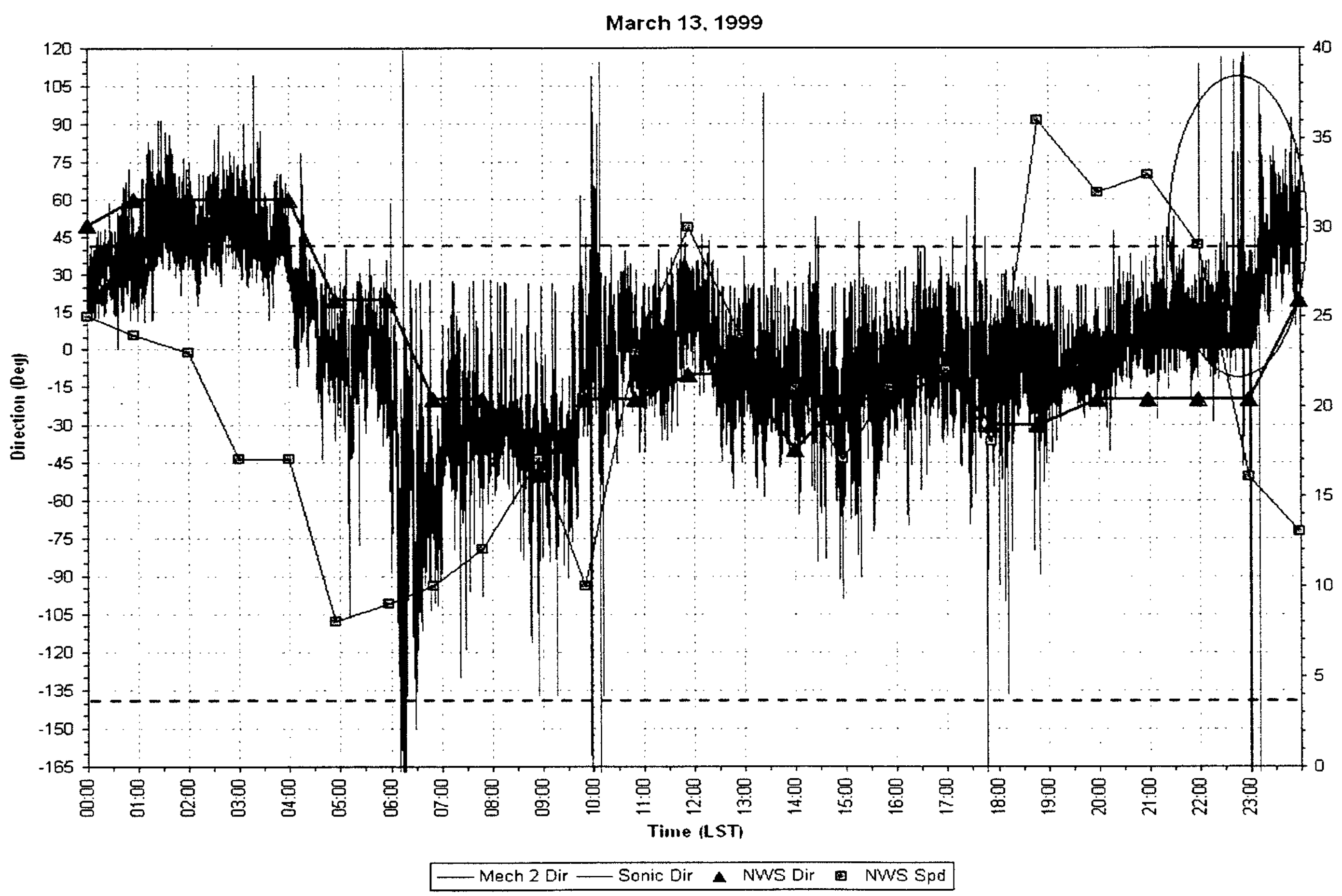

March 11, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd


March 12, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
FZFG
-SN FZFG
FZDZ FZFG
FZDZ FZFG
LGT ICG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis


March 12, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

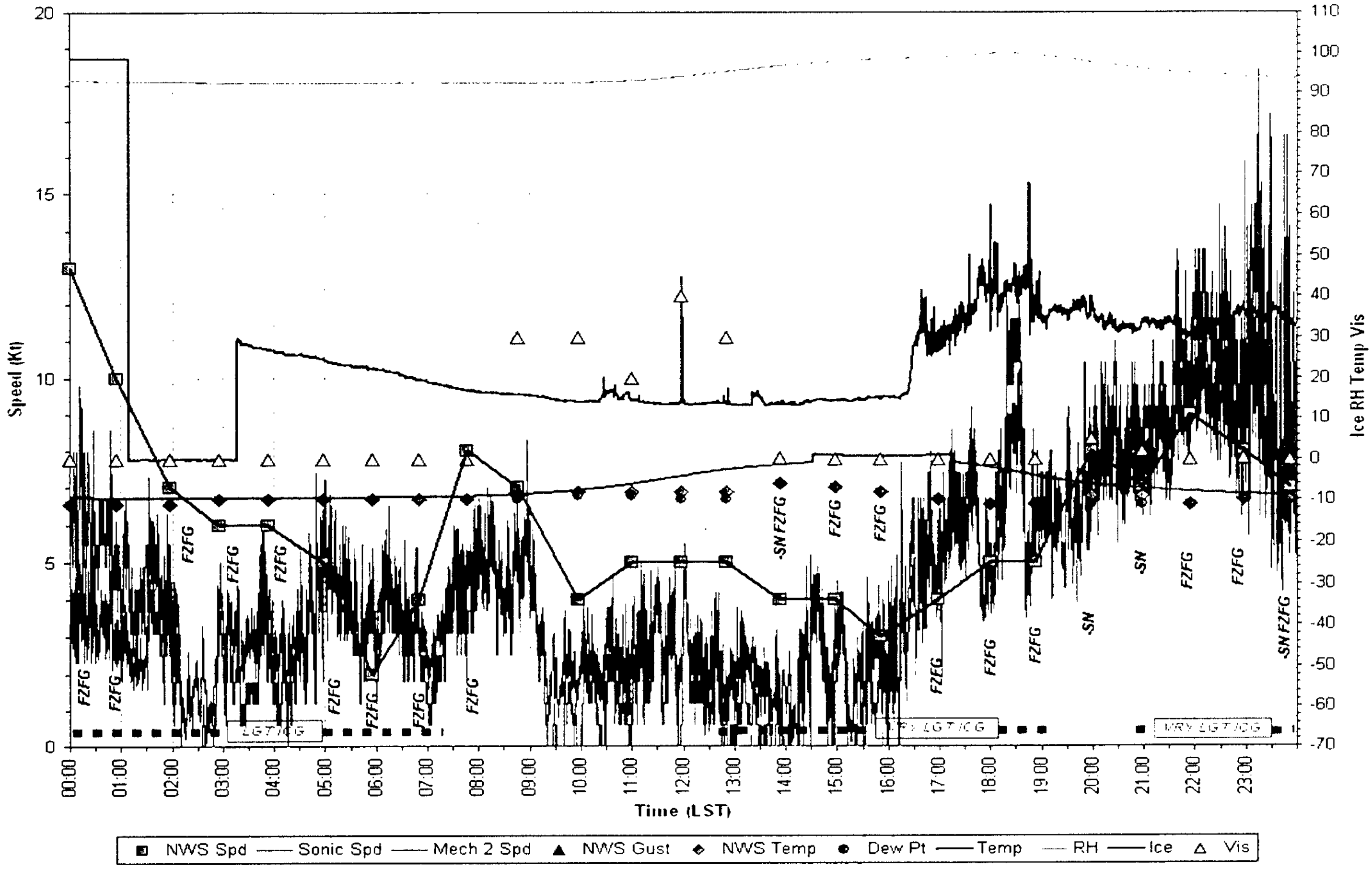


March 13, 1999
Speed (Kt)
Ice·RH·Temp·Vis
SN FZFG
FZFG
LGT ICG
Time (LST)
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

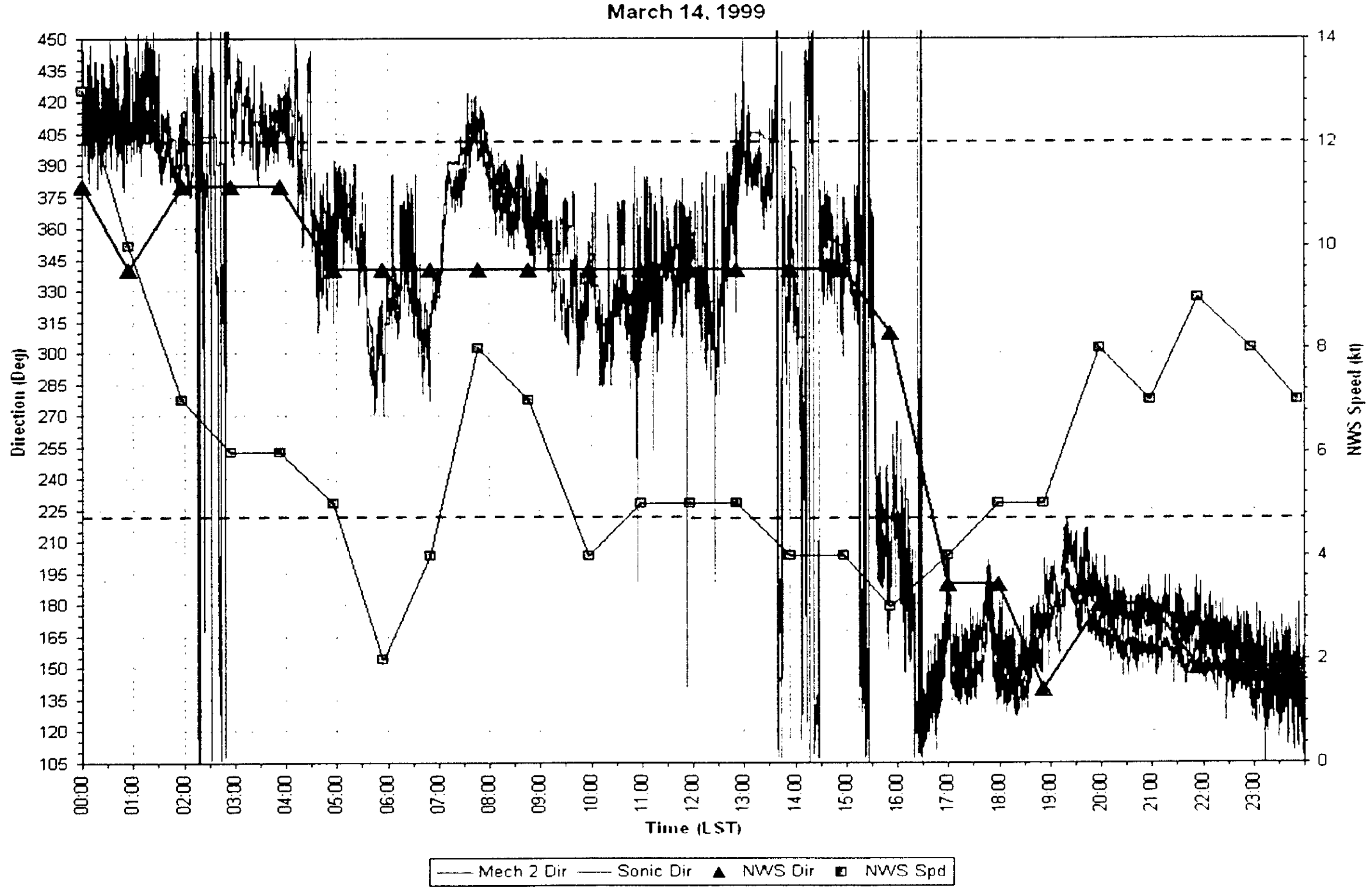


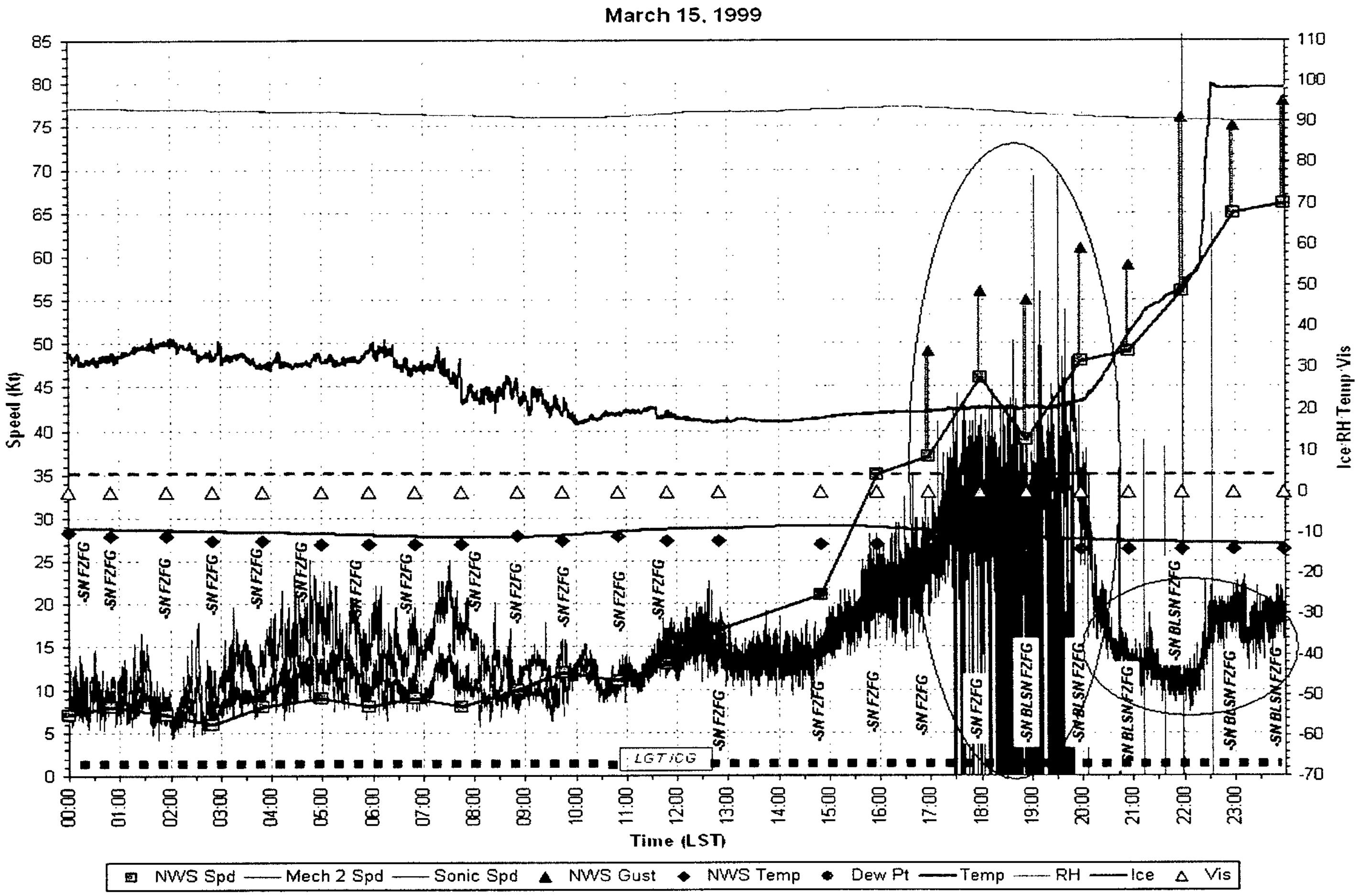
March 13, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

March 14, 1999

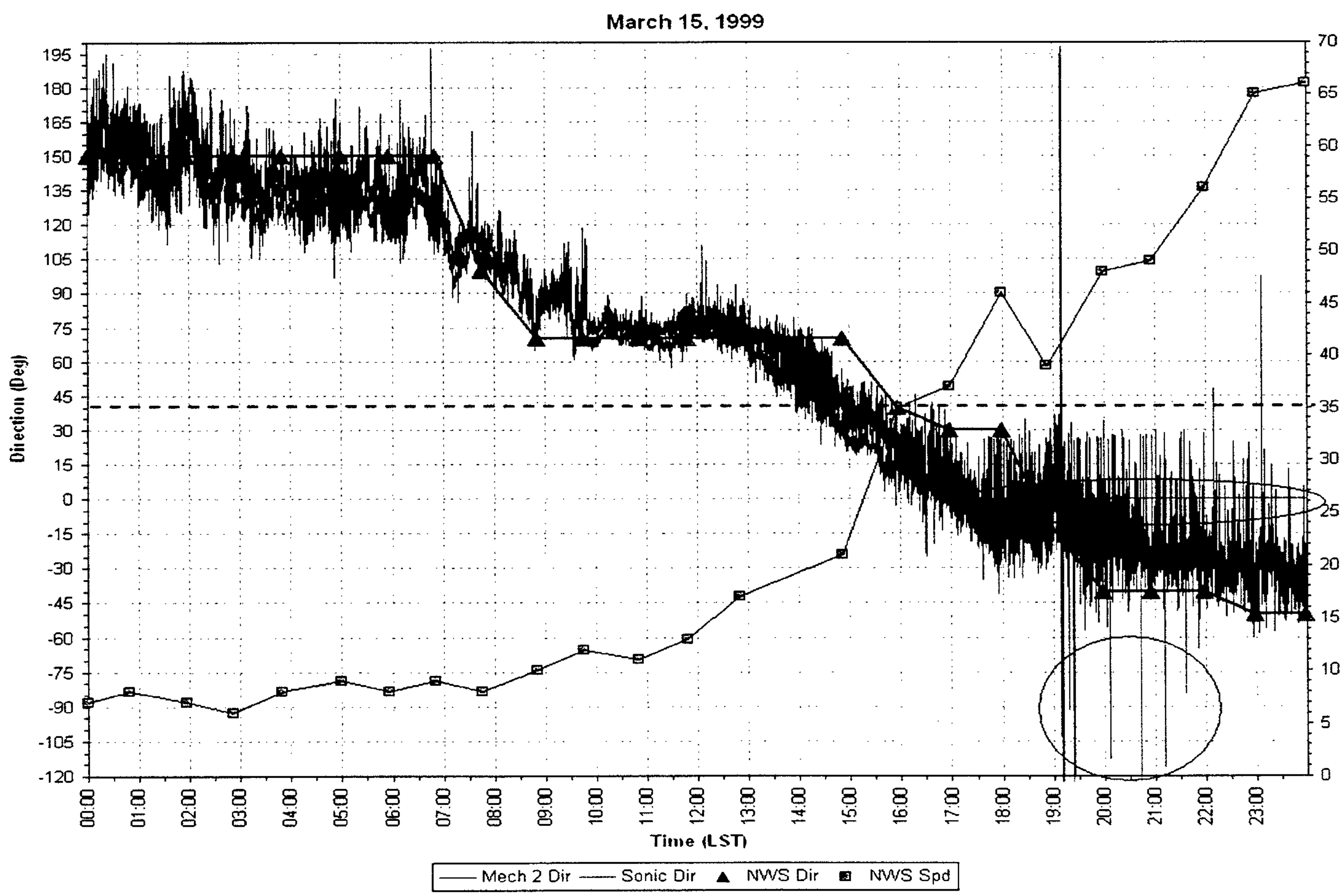


March 14, 1999

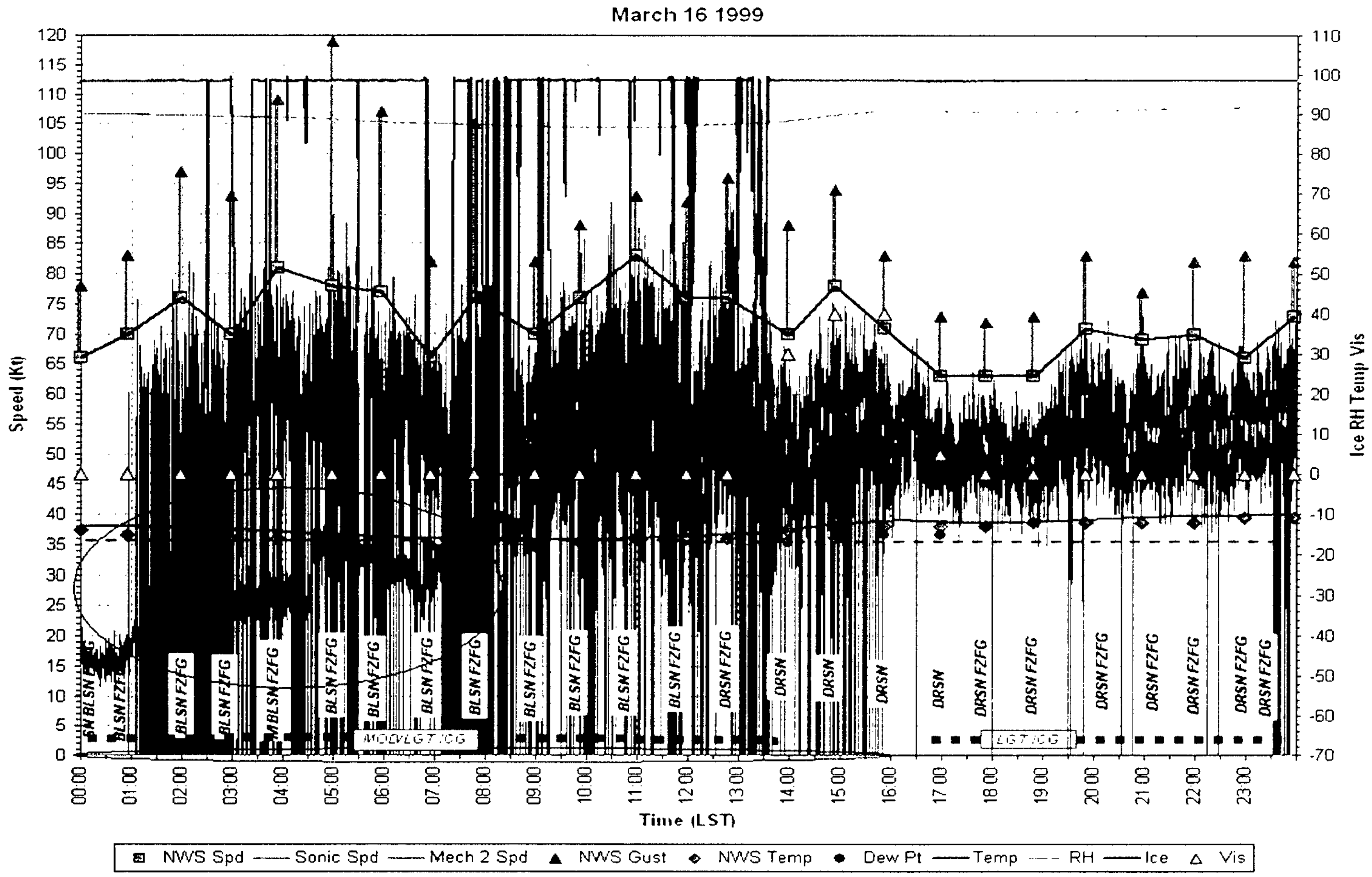


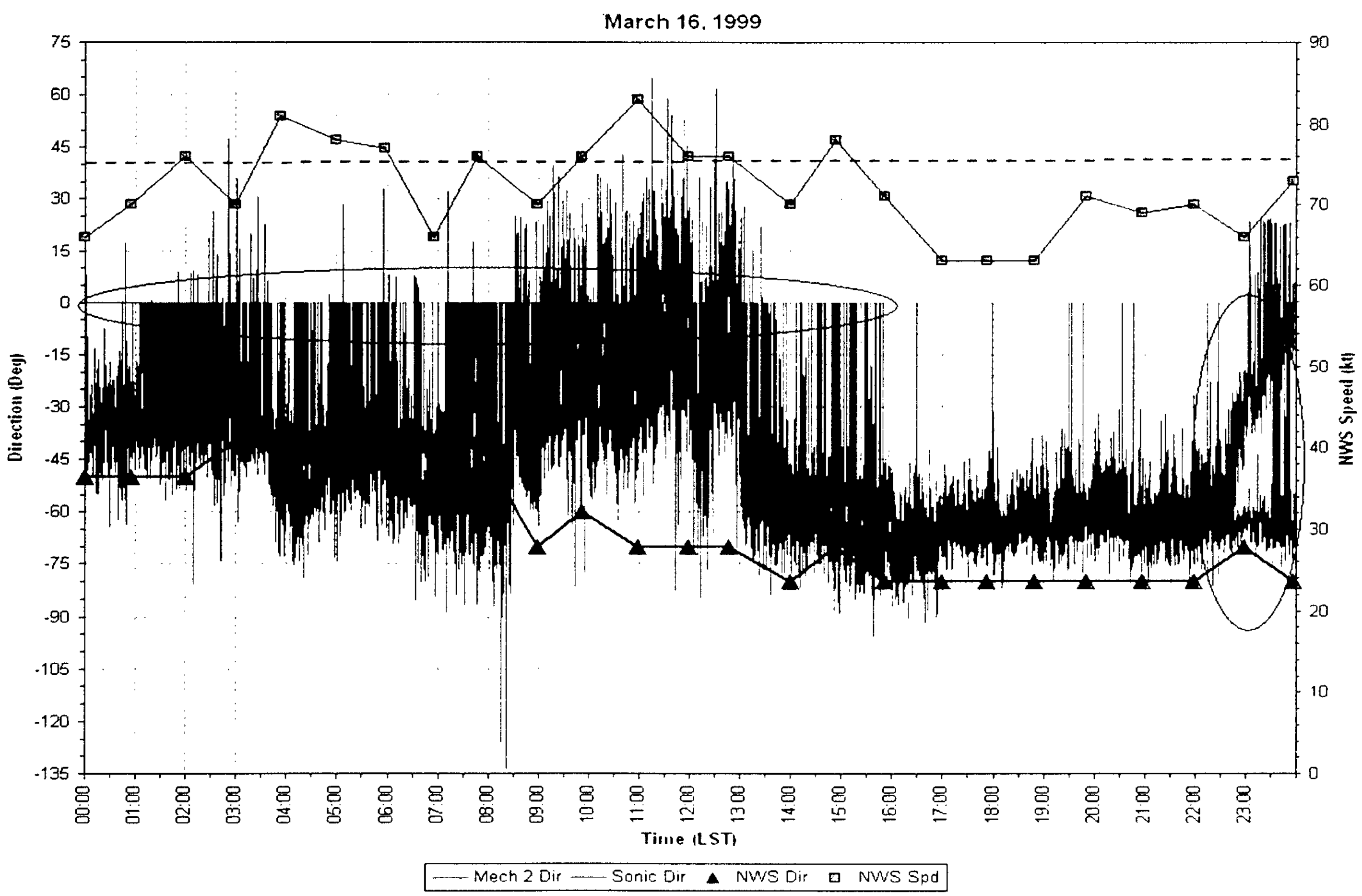


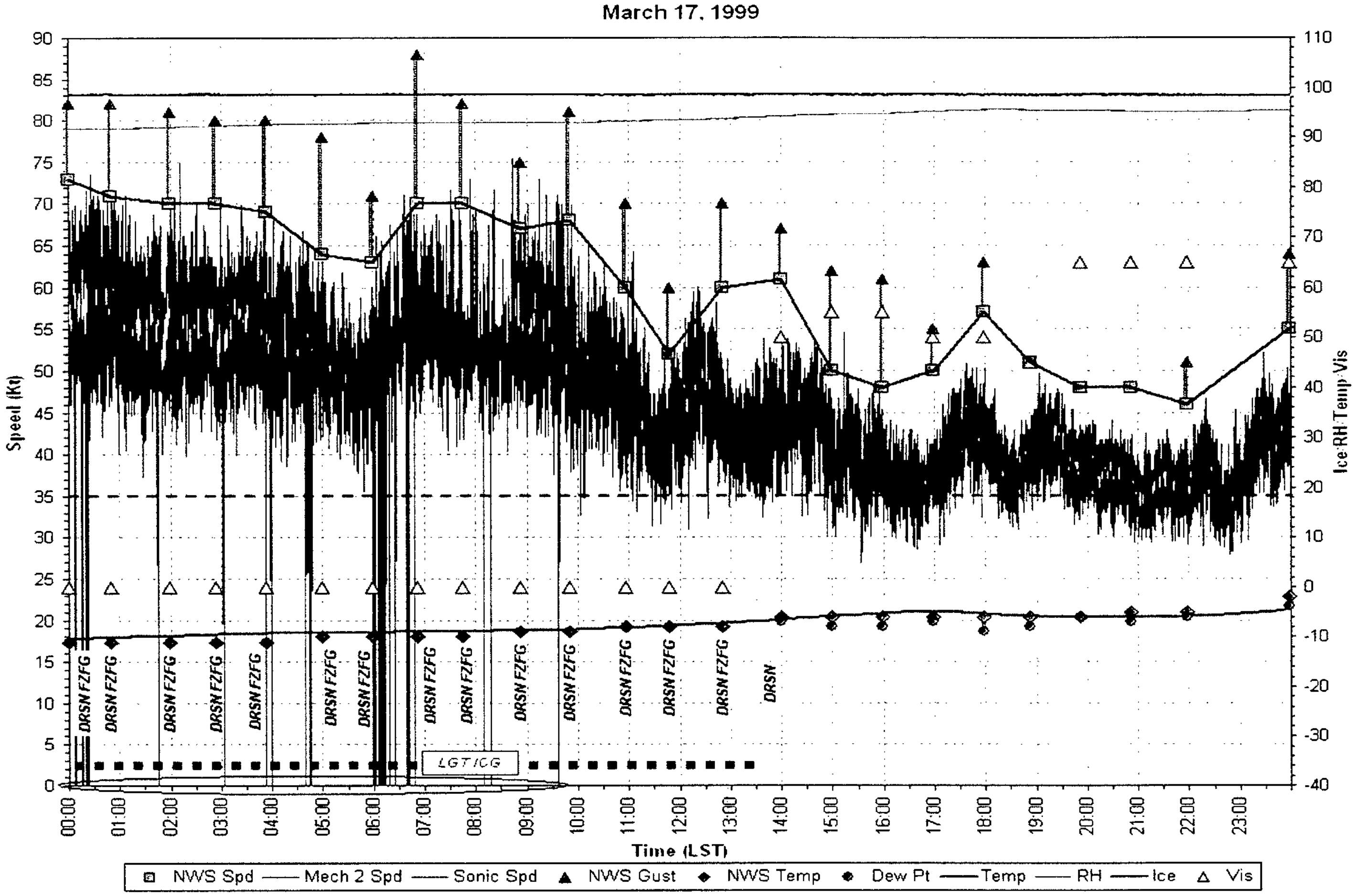
March 15, 1999
Speed (Kt)
Ice·RH·Temp·Vis
Time (LST)
-SN FZFG
-SN BLSN FZFG
LGT ICG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

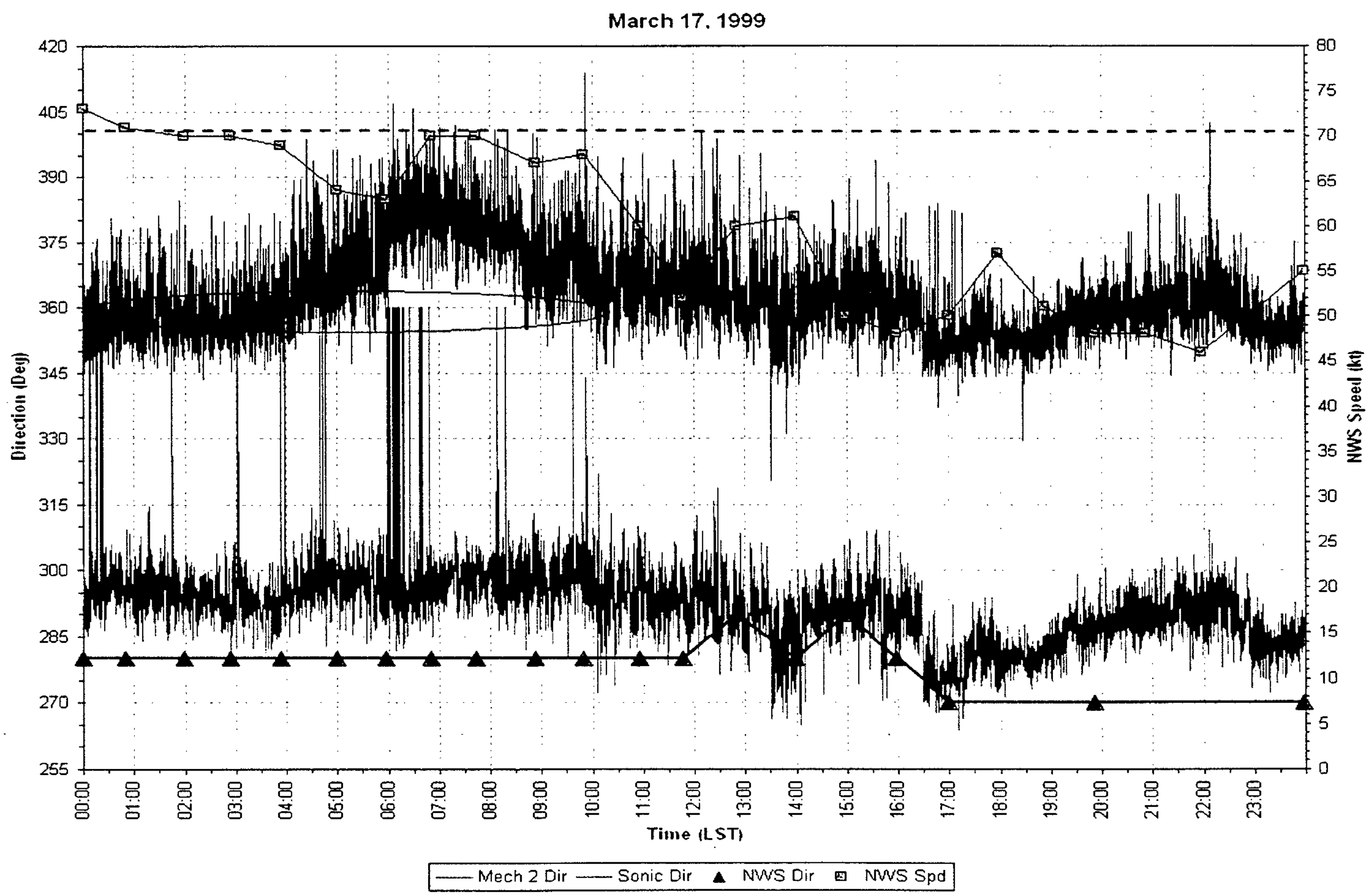


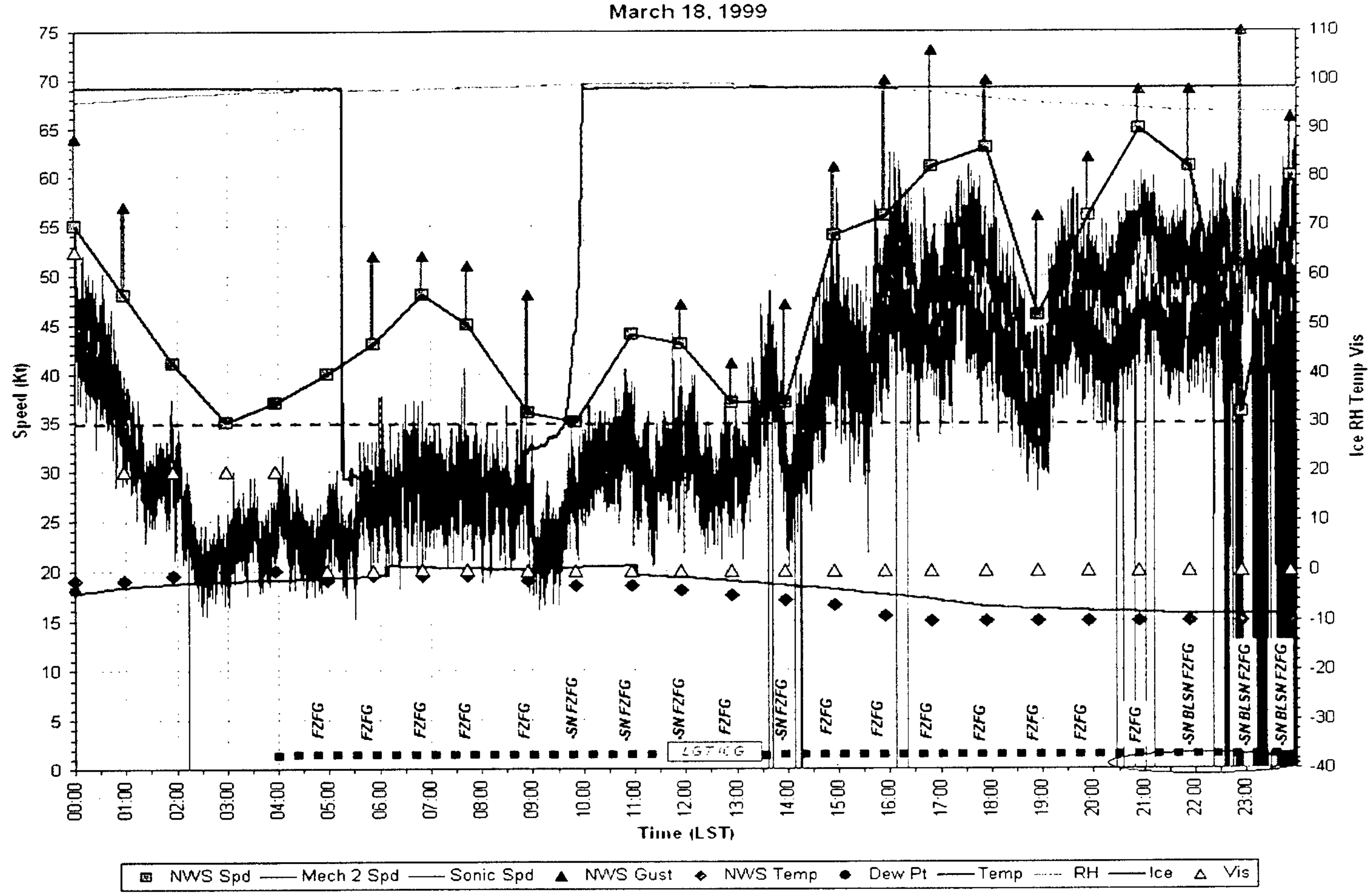
March 15, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

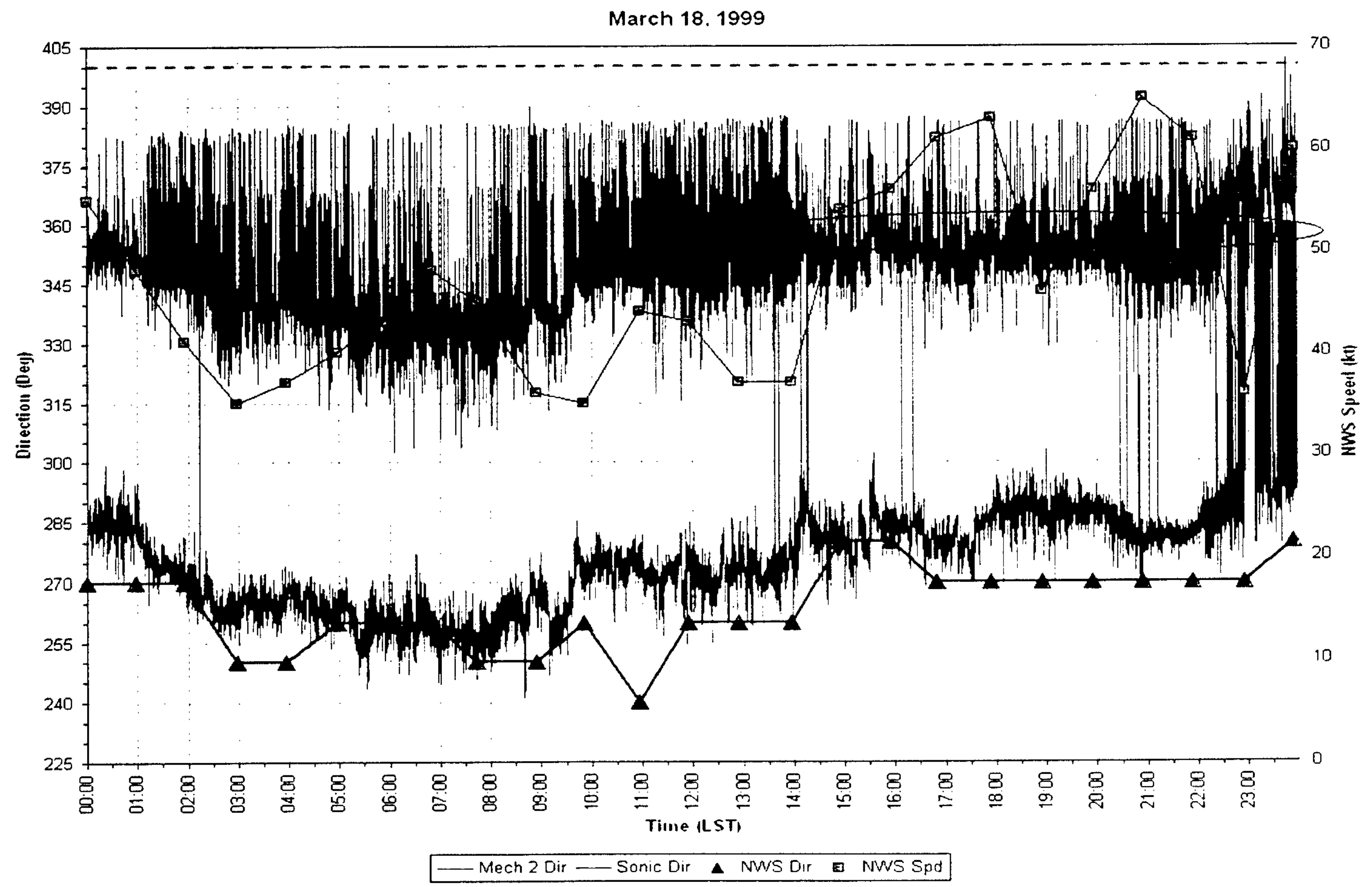

March 16 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
BLSN FZFG
DRSN FZFG
DRSN
NWS Spd
Sonic Spd
Mech 2 Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

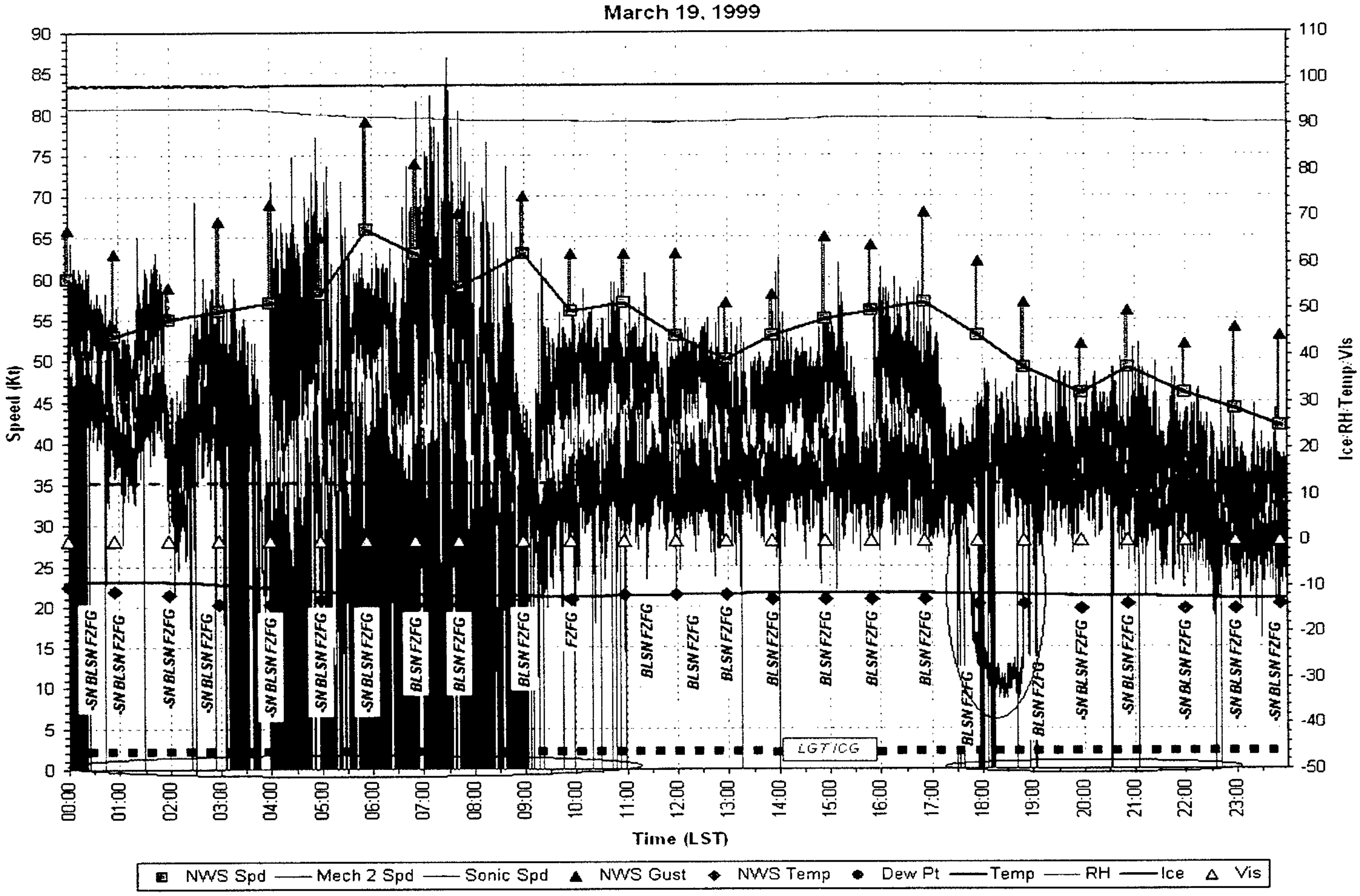

March 16, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

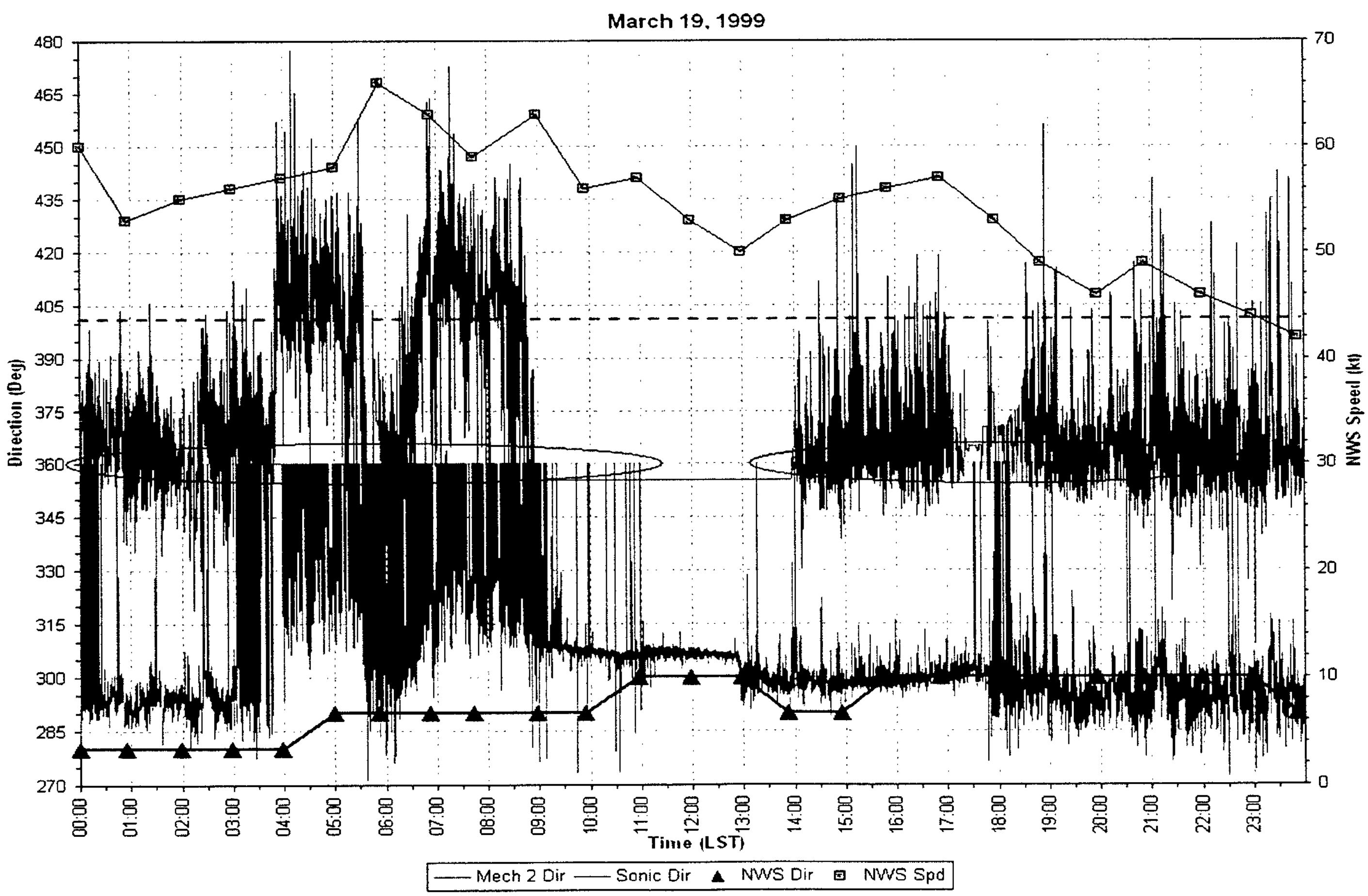

March 17, 1999
Speed (Kt)
Ice/RH/Temp/Vis
Time (LST)
DRSN FZFG
DRSN
LGT ICG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

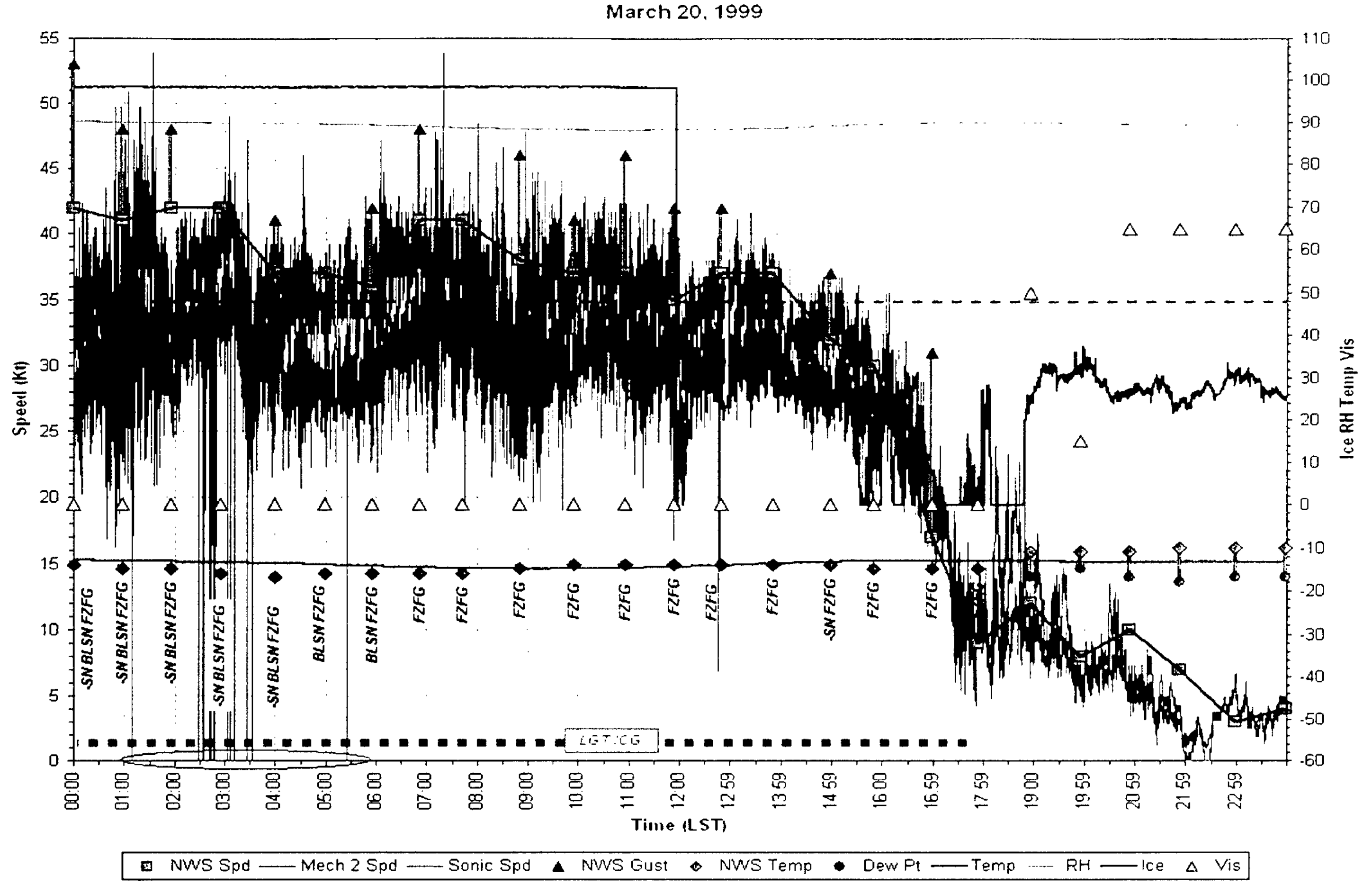

March 17, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

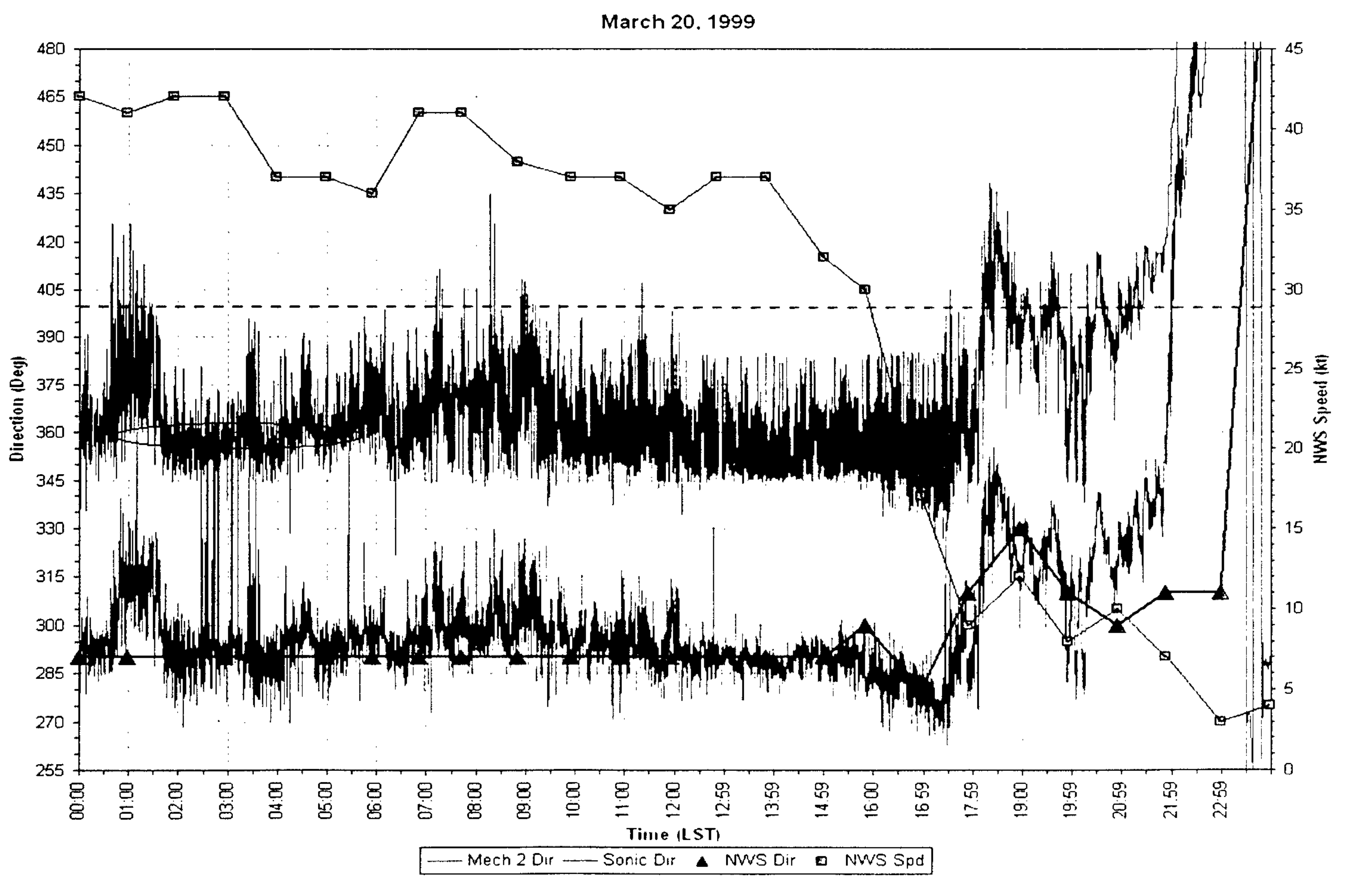

March 18, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
FZFG
-SN FZFG
-SN BLSN FZFG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis

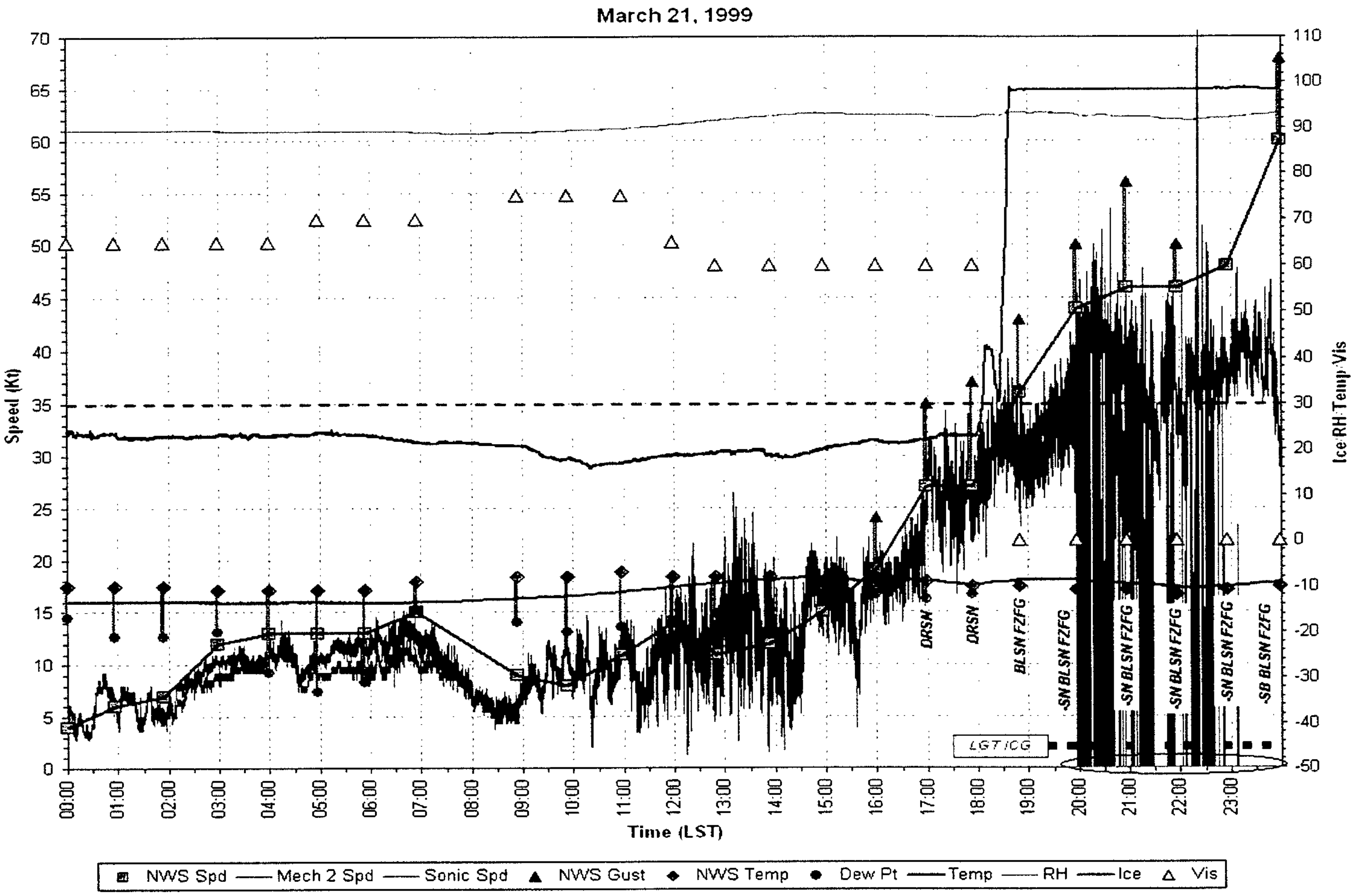

March 18, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd

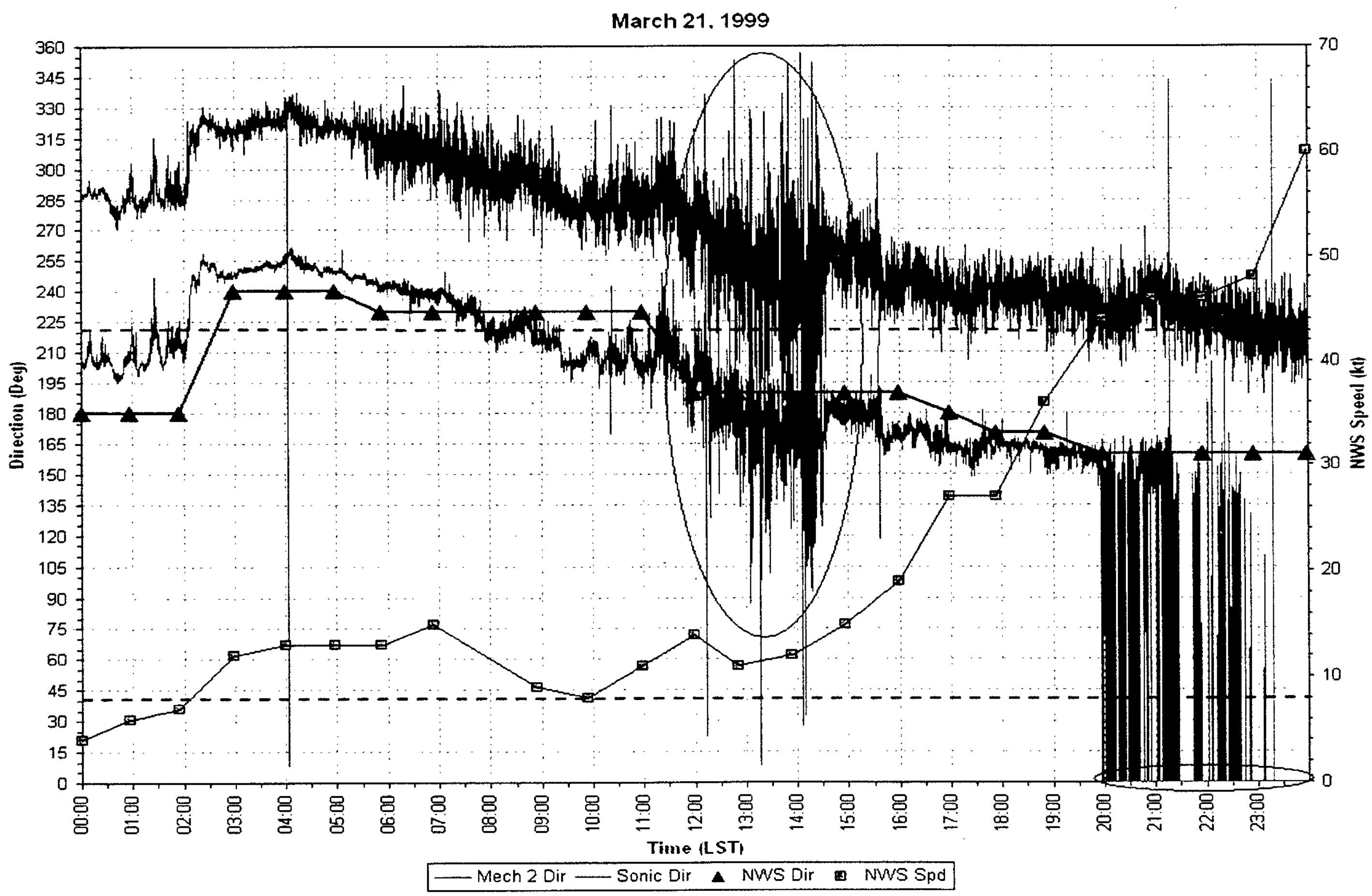

March 19, 1999
Speed (Kt)
Ice:RH:Temp:Vis
Time (LST)
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis
-SN BLSN FZFG
BLSN FZFG
FZFG
LGT ICG


March 19, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd


March 20, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
-SN BLSN FZFG
BLSN FZFG
FZFG
-SN FZFG
LGT ICG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis


March 20, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd


March 21, 1999
Speed (Kt)
Ice RH Temp Vis
Time (LST)
DRSN
DRSN
BLSN FZFG
-SN BLSN FZFG
-SN BLSN FZFG
-SN BLSN FZFG
-SN BLSN FZFG
-SB BLSN FZFG
LGT ICG
NWS Spd
Mech 2 Spd
Sonic Spd
NWS Gust
NWS Temp
Dew Pt
Temp
RH
Ice
Vis


March 21, 1999
Direction (Deg)
NWS Speed (kt)
Time (LST)
Mech 2 Dir
Sonic Dir
NWS Dir
NWS Spd